DOC NUMBER: **569-DB7A-AIC-712-007**	CLIENT NUMBER: **PRD-AIC-DSH-054**
CLIENT: **TAKEDA/BAXALTA**	
PROJECT: **BURITI EPCVM PROJECT**	

DRUG PRODUCT - BMS - DATA SHEET
PRESSURE TRANSMITTER

REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV
1	28APR2022	ISSUE FOR CONSTRUCTION AS PER NOTE	ACC	MAF	RSP
0	30AUG2021	ISSUE FOR CONSTRUCTION	JHA	MAF	RSP
A	24MAR2021	60% DD ISSUE	JHA	MAF	RSP

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054
TITLE	PRESSURE TRANSMITTER	SHEET:	2 de 81
		REV.:	1

DOCUMENT REVIEW CONTROL

Revision	A	0	1	2	3	4	Revision	A	0	1	2	3	4	Revision	A	0	1	2	3	4
Page							Page							Page						
1	X	X	X				32	X	X	X				63	X	X	X			
2	X	X	X				33	X	X	X				64	X	X	X			
3	X	X	X				34	X	X	X				65	X	X	X			
4	X	X	X				35	X	X	X				66	X	X	X			
5	X	X	X				36	X	X	X				67	X	X	X			
6	X	X	X				37	X	X	X				68	X	X	X			
7	X	X	X				38	X	X	X				69	X	X	X			
8	X	X	X				39	X	X	X				70	X	X	X			
9	X	X	X				40	X	X	X				71	X	X	X			
10	X	X	X				41	X	X	X				72	X	X	X			
11	X	X	X				42	X	X	X				73	X	X	X			
12	X	X	X				43	X	X	X				74	X	X	X			
13	X	X	X				44	X	X	X				75	X	X	X			
14	X	X	X				45	X	X	X				76	X	X	X			
15	X	X	X				46	X	X	X				77	X	X	X			
16	X	X	X				47	X	X	X				78	X	X	X			
17	X	X	X				48	X	X	X				79	X	X	X			
18	X	X	X				49	X	X	X				80	X	X	X			
19	X	X	X				50	X	X	X				81	X	X	X			
20	X	X	X				51	X	X	X				82	X	/	/			
21	X	X	X				52	X	X	X				83	/	/	/			
22	X	X	X				53	X	X	X				84	/	/	/			
23	X	X	X				54	X	X	X				85						
24	X	X	X				55	X	X	X				86						
25	X	X	X				56	X	X	X				87						
26	X	X	X				57	X	X	X				88						
27	X	X	X				58	X	X	X				89						
28	X	X	X				59	X	X	X				90						
29	X	X	X				60	X	X	X				91						
30	X	X	X				61	X	X	X				92						
31	X	X	X				62	X	X	X				93						

REVISION 0 NOTES:

1- UPDATE ACCORDING TO P&ID (HVAC AND PROCESS).
2- INSERTION OF PROCESS DATA.
3- INSERTION OF INSTRUMENT REFERENCE MODELS.
4- CANCEL PDIT-960001; PDIT-9700123; PIT-790311; PIT-790312; PIT-940054; PIT-960001; PIT-960006; PIT-9700XX01; PDT-RAV-A-2044-2; PDT-RAV-A-2044-3

REVISION 2 NOTES AS PER N+1 UPDATE:

1- INDICATED FUTURE INSTRUMENTS: PIT-960066, PIT-960077, PIT-960065, PIT-9600150, PIT-980057, PIT-980077, PIT-980053, PIT-980083.

The information contained in this document is the property of TESSLER Engenharia and is provided to the customer under the condition that they are not used for other purposes other than those contractually established.

REFERENCE DOCUMENTS

7A-M-0-5-21	DRUG PRODUCT - AFD - AHU-7A-1
7A-M-0-5-22	DRUG PRODUCT - AFD - AHU-7A-2
7A-M-0-5-23	DRUG PRODUCT - AFD - AHU-7A-3
7A-M-0-5-24	DRUG PRODUCT - AFD - AHU-7A-4
7A-M-0-5-25	DRUG PRODUCT - AFD - AHU-7A-5
7A-M-0-5-26	DRUG PRODUCT - AFD - AHU-7A-6
7A-M-0-5-28	DRUG PRODUCT - AFD - DOAS-7A-1
7A-M-0-5-42	P&I DIAGRAM - DRUG PRODUCT - COOLING WATER SYSTEM
7A-M-0-5-43	P&I DIAGRAM - DRUG PRODUCT - CHILLED WATER GENERATION SYSTEM (HVAC)
7A-M-0-5-44	P&I DIAGRAM - DRUG PRODUCT - CHILLED WATER DISTRIBUTION SYSTEM
7A-M-0-5-45	P&I DIAGRAM - DRUG PRODUCT - CHILLED GLYCOL GENERATION SYSTEM
7A-M-0-5-47	P&I DIAGRAM - DRUG PRODUCT - HEATING HOT WATER SYSTEM (HVAC)
7A-M-0-5-50	P&I DIAGRAM - DRUG PRODUCT - HEATING HOT WATER SYSTEM (HVAC)
7A-M-0-5-53	P&I DIAGRAM - DRUG PRODUCT - CHILLED GLYCOL DISTRIBUTION SYSTEM
7A-M-0-5-61	P&I DIAGRAM - DRUG PRODUCT - PLANT STEAM DISTRIBUTION SYSTEM (PROCESS + HVAC)
PRD-AIC-LIS-014	DRUG PRODUCT - BMS - INSTRUMENT INDEX
PRD-PIP-TSP-501	PIPE CLASS AND SPECIFICATION - TECHNICAL SPECIFICATION
PRD-AIC-LIS-046	INTEGRATED PROJECT SERVICES - INSTRUMENT SUGGESTED SUPPLIER LIST

GENERAL NOTES

1- The transmitters must have the following characteristics:
a) They must be electronic, intelligent and programmable, with the transmission of the signal in the same physical medium as the power supply;
b) Support the respective maximum static design pressures;
c) They must be capable of identifying internal failures;
d) Be capable of setting the value of the output signal, programmable in 0% or 100% of the range, in case of sensor element failure;

2- All transmitters must have enclosures, whose parts exposed to the atmosphere are resistant to environmental conditions, including those generated by the process condition.

3- All electronic or electrical components that are subject to fungal and moisture attacks must be tropicalized, i.e., treated with polyurethane coating or equivalent to inhibit this attack.

4- All transmitters must be provided with protection type certificates compatible with the respective area classification. If the enclosure requires certificates regarding type and degree of protection, both proofs must be explicit in the same certificate. The certificates must be issued by INMETRO or an accredited body.

5- All transmitters must have a calibration certificate with traceability according to ISO 9000.

6- The identification plates must be made of AISI 304 stainless steel permanently attached to the instruments with a tag and serial number. The serial number of the instrument, when possible, can be recorded on the body itself.

7- All electronic instruments must be provided with software asset management feature, with zero adjustment function, span adjustment and other remote settings via digital data communication. The software must be supplied with the instruments and when necessary the connecting cables must also be provided.

8- The instrument display must be at least 2 lines with 5 characters on each line.

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDIT-9600234			
	2	SERVIÇE		CHILLED WATER SUPPLY/ RETURN BUILDING 7A			
	3	P&ID		7A-M-0-5-55			
	4	PIPE LINE ENTRY	PIPE LINE RET / EQUIPMENT	7A-6"-CW1S-960004-CS1-CC		7A-6"-CW1R-960005-CS1-CC	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		1/2" NPT (F)	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	5,5 / 12,5	5,5 / 12,5	5,5 / 12,5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1,6 / 0,33	1,7 / 0,4	1,7 / 0,44	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	3.9 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.5 Cp			
	46	DENSITY @ OPERATING CONDITION		999.99 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDIT-970005			
	2	SERVIÇE		RE-HEATED WATER SUPPLY/ RETURN 7A			
	3	P&ID		7A-M-0-5-50			
	4	PIPE LINE ENTRY	PIPE LINE RET / EQUIPMENT	7A-11/2"-HHWR-970010-CS1-HC		7A-11/2"-HHWS-970005-CS1-HC	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		1/2" NPT (F)	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	RE-HEATED WATER		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	61,1 / 50	61,1 / 50	61,1 / 50	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	2,54 / 1,27	2,96 / 1,67	2,96 / 1,69	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	5.6 bar-g		91.1 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.55 Cp			
	46	DENSITY @ OPERATING CONDITION		988.1 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDIT-9800163			
	2	SERVIÇE		DIFFERENTIAL PRESSURE AT CHILLED WATER DISTRIBUTION SYSTEM			
	3	P&ID		7A-M-0-5-53			
	4	PIPE LINE ENTRY	PIPE LINE RET / EQUIPMENT	7A-2 1/2"-GW0S-9800163-CS1-CC		7A-2 1/2"-GW0R-980060-CS1-HC	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		1/2" NPT (F)	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER (NOTE 1)		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	5,0 / 9,2	5,0 / 9,2	5,0 / 9,2	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	2,7 / 1,3	2,9 / 1,5	2,9 / 1,5	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.1 bar-g		35 °C	
	45	VISCOSITY @ OPERATING CONDITION		1,52 / 1,27 cP			
	46	DENSITY @ OPERATING CONDITION		1000 / 999,64 kg/m³			
	47	SUSPENDED SOLIDS (%)		-			
	48	M.M. / Z / Cp/Cv		-			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

1- THE INSTRUMENT SHALL BE PREPARED TO OPERATE WITH PROPYLENE GLICOL 10% IF REQUIRED.

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-790101			
	2	SERVIÇE		PLANT STEAM RE-HEATED WATER-HX-7A-1			
	3	P&ID		7A-M-0-5-61			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-3"-IS1B-790101-CS1-HC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 3 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	STEAM		STEAM	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM		165	165	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM		2.1	2.1	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	6 bar-g		192 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.014 Cp			
	46	DENSITY @ OPERATING CONDITION		1.6 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-790201			
	2	SERVIÇE		PLANT STEAM RE-HEATED WATER FOR SKID			
	3	P&ID		7A-M-0-5-61			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-11/2"-IS4B-790201-CS1-HC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	STEAM		STEAM	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM		170	170	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM		4.0	4.0	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	(NOTE 1) bar-g		(NOTE 1) ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.014 Cp			
	46	DENSITY @ OPERATING CONDITION		2.9 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

1- Waiting supplier information for temperature and pressure design

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-790314	
	2	SERVIÇE		PLANT STEAM PC-7A-1 / CSG-6501 / MÊS-6401	
	3	P&ID		7A-M-0-5-61	
	4	PIPE LINE	EQUIPMENT NUMBER	7A-21/2"-IS8B-790312-CS2-HC	-
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B	
	6	AREA CLASSIFICATION		NOT CLASSIFIED	
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529	
	8	CERTIFICATES		(SEE GENERAL NOTES 4)	
	9				
TRANSMITTER	10	TYPE		MICROPROCESSED	
	11	MOUNTING		REMOTE	
	12	BODY MATERIAL		316SS	
	13	BODY PRESSURE CLASS		BY MANUFACTURER	
	14	METER CASING		ALUMINIO (COPPER FREE)	
	15	POWER SUPPLY		24 Vcc - 2 FIOS	
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)	
	17	COMMUNICATION PROTOCOL		HART	
	18	PRECISION		± 0.075% F.E.	
	19	REPEATABILITY		BY MANUFACTURER	
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)	
	21	SENSOR ELEMENT MATERIAL		316LSS	
	22	CALIBRATION RANGE		BY MANUFACTURER	
	23	CALIBRATED RANGE		0 @ 10 bar-g	
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)	NOT REQUIRED
	25	ELECTRICAL CONNECTION		1/2" NPT (F)	
	26				
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES	
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED	
	29	SEAL MATERIAL		NOT REQUIRED	
	30	CONNECTION TO PROCESS		NOT REQUIRED	
	31	FLANGE FACE FINISH		NOT REQUIRED	
	32	FILLING FLUID		NOT REQUIRED	
	33	CAPILLARY MATERIAL		NOT REQUIRED	
	34	CAPILLARY LENGTH		NOT REQUIRED	
	35				
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE	
	37	MANIFOLD		NOT	
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)	
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)	
	40	SURGE PROTECTOR		YES	

OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		STEAM		STEAM	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM		179	179	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM		8.6	8.6	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		11.7 bar-g		200 ºC	
	45	VISCOSITY @ OPERATING CONDITION			0.015 Cp			
	46	DENSITY @ OPERATING CONDITION			4.94 kg/m³			
	47	SUSPENDED SOLIDS (%)			NO			
	48	M.M. / Z / Cp/Cv			... / ... / ...			
	49							
	50	MANUFACTURER			Endress + Hauser (E+H) or Similar			
	51	MODEL			PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER			PIT-790315		
	2	SERVIÇE			PLANT STEAM RE-HEATED WATER FOR SKID		
	3	P&ID			7A-M-0-5-61		
	4	PIPE LINE	EQUIPMENT NUMBER		7A-11/2"-IS8B-790315-CS2-HC	-	
	5	EQUIPMENT MATERIAL / PIPE			CARBON STEEL ASTM-A106 Gr.B		
	6	AREA CLASSIFICATION			NOT CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 4)		
	9						
TRANSMITTER	10	TYPE			MICROPROCESSED		
	11	MOUNTING			REMOTE		
	12	BODY MATERIAL			316SS		
	13	BODY PRESSURE CLASS			BY MANUFACTURER		
	14	METER CASING			ALUMINIO (COPPER FREE)		
	15	POWER SUPPLY			24 Vcc - 2 FIOS		
	16	OUTPUT SIGNAL			4 - 20 mA (500 ohms @ 24 Vcc)		
	17	COMMUNICATION PROTOCOL			HART		
	18	PRECISION			± 0.075% F.E.		
	19	REPEATABILITY			BY MANUFACTURER		
	20	ELEMENT TYPE			DIAPHRAGM (CAPACITIVE)		
	21	SENSOR ELEMENT MATERIAL			316LSS		
	22	CALIBRATION RANGE			BY MANUFACTURER		
	23	CALIBRATED RANGE			0 @ 10 bar-g		
	24	CONNECTION TO PROCESS (HIGH / LOW)			1/2" NPT (F)	NOT REQUIRED	
	25	ELECTRICAL CONNECTION			1/2" NPT (F)		
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN			YES / YES		
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL			NOT REQUIRED		
	29	SEAL MATERIAL			NOT REQUIRED		
	30	CONNECTION TO PROCESS			NOT REQUIRED		
	31	FLANGE FACE FINISH			NOT REQUIRED		
	32	FILLING FLUID			NOT REQUIRED		
	33	CAPILLARY MATERIAL			NOT REQUIRED		
	34	CAPILLARY LENGTH			NOT REQUIRED		
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES			YES, STAINLESS STEEL FOR 2" TUBE		
	37	MANIFOLD			NOT		
	38	LOCAL INDICATION			SIM, TIPO LCD (VER NOTAS GERAIS 8)		
	39	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 6)		
	40	SURGE PROTECTOR			YES		
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		STEAM	STEAM	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM		179	179	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM		8.64	8.64	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		11.7 bar-g	200 ºC	
	45	VISCOSITY @ OPERATING CONDITION			0.015 Cp		
	46	DENSITY @ OPERATING CONDITION			4.96 kg/m³		
	47	SUSPENDED SOLIDS (%)			NO		
	48	M.M. / Z / Cp/Cv			... / ... / ...		
	49						
	50	MANUFACTURER			Endress + Hauser (E+H) or Similar		
	51	MODEL			PMP-75 (E+H)		

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **1**

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-790317			
	2	SERVIÇE		PLANT STEAM RE-HEATED WATER-HX-7A-1			
	3	P&ID		7A-M-0-5-61			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-2"-IS8B-790317-CS2-HC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 10 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	STEAM		STEAM	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM		179	179	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM		8.56	8.56	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	11.7 bar-g		200 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.015 Cp			
	46	DENSITY @ OPERATING CONDITION		4.92 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **1**

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-940020			
	2	SERVIÇE		COOLING WATER - PROC.WASTER / AIR GENERATION / CHILLER GENER. (PRC/HVAC)			
	3	P&ID		7A-M-0-5-42			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-16"-TWR-940069-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	31.5	31.5	31.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.64	0.67	0.68	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.77 Cp			
	46	DENSITY @ OPERATING CONDITION		995.3 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **1**

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-940053			
	2	SERVIÇE		COOLING WATER - CHILLED WATER GEN. (PROC./ HVAC)			
	3	P&ID		7A-M-0-5-42			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-16"-TWS-940053-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	INDUSTRIAL WATER		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	31.5	31.5	31.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	2.10	2.14	2.14	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.77 Cp			
	46	DENSITY @ OPERATING CONDITION		995.3 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **1**

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960059			
	2	SERVIÇE		CHILLED WATER - SUPPLY BUILDING 7A/B			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-10"-CW1S-960074-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER SUPPLY		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	5.5	5.5	5.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.46	0.44	0.43	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.7 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.5 Cp			
	46	DENSITY @ OPERATING CONDITION		999.99 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960061			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-1			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-12"-TWS-960061-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	31.5	31.5	31.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	2.05	2.08	2.08	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.77 Cp			
	46	DENSITY @ OPERATING CONDITION		995.3 kg/m³			
	47	SUSPENDED SOLIDS (%)		,			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960062			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-1			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-12"-TWR-960062-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	37	37	37	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.16	1.19	1.20	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.69 Cp			
	46	DENSITY @ OPERATING CONDITION		993 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960063			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-2			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-12"-TWS-960063-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER SUPPLY		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	31.5	31.5	31.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	2.02	2.055	2.059	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.77 Cp			
	46	DENSITY @ OPERATING CONDITION		993 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960064			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-2			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-12"-TWR-960064-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	37	37	37	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.13	1.17	1.69	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.69 Cp			
	46	DENSITY @ OPERATING CONDITION		993 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960065			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-3			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-12"-TWS-960065-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER SUPPLY		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	31.5	31.5	31.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	2.02	2.055	2.059	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.77 Cp			
	46	DENSITY @ OPERATING CONDITION		995.3 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

FUTURE

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 20 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960066			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-3			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-12"-TWR-960066-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	37	37	37	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.13	1.17	1.69	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.69 Cp			
	46	DENSITY @ OPERATING CONDITION		993 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

FUTURE

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **1**

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960075			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-1			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-10"-CW1R-960075-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	12.5	12.5	12.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.8	1.8	1.8	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.7 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.24 Cp			
	46	DENSITY @ OPERATING CONDITION		999.6 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960076			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-2			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-10"-CW1R-960076-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	12.5	12.5	12.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.8	1.8	1.8	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.7 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.24 Cp			
	46	DENSITY @ OPERATING CONDITION		999.6 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960077			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS - CH-7A-3			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-10"-CW1R-960077-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	12.5	12.5	12.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.8	1.8	1.8	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.7 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.24 Cp			
	46	DENSITY @ OPERATING CONDITION		999.6 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

FUTURE

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **0**

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960078			
	2	SERVIÇE		CHILLED WATER - RETURN BUILDING 7 A/B			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-12"-CW1R-960078-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 0,5 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	12.5	12.5	12.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.39	0.38	0.38	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	3.9 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.24 Cp			
	46	DENSITY @ OPERATING CONDITION		999.6 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960085			
	2	SERVIÇE		CHILLED WATER - RETURN BUILDING 7A			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-8"-CW1R-960005-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 0,5 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	12.5	12.5	12.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.26	0.28	0.28	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	3.9 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.24 Cp			
	46	DENSITY @ OPERATING CONDITION		999.6 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-960088			
	2	SERVIÇE		CHILLED WATER - RETURN BUILDING 7B			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-10"-CW1R-960008-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 0,5 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	12.5	12.5	12.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.25	0.26	0.26	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.3 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.24 Cp			
	46	DENSITY @ OPERATING CONDITION		999.6 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-9600120			
	2	SERVIÇE		CHILLED WATER - SUPPLY BUILDING 7A			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-10"-CW1S-960001-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER SUPPLY		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	5.5	5.5	5.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.73	0.72	0.72	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.7 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.5 Cp			
	46	DENSITY @ OPERATING CONDITION		999.99 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 28 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-9600135			
	2	SERVIÇE		OUTPUT CH-7A-2 - CHILLED WATER - SUPPLY BUILDING 7A/B			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-10"-CW1S-960002-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER SUPPLY		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	5.5	5.5	5.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.73	0.74	0.74	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.7 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.5 Cp			
	46	DENSITY @ OPERATING CONDITION		999.99 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 29 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-9600150			
	2	SERVIÇE		OUTPUT CH-7A-3 - CHILLED WATER - SUPPLY BUILDING 7A/B			
	3	P&ID		7A-M-0-5-43			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-10"-CW1S-960003-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER SUPPLY		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	5.5	5.5	5.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.73	0.74	0.74	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.7 bar-g		42.5 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.5 Cp			
	46	DENSITY @ OPERATING CONDITION		999.99 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

FUTURE

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 30 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980052			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS PCH-7A-1			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-TWS-980052-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		7			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER SUPPLY		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	31.5	31.5	31.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	2.013	2.047	2.051	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.77 Cp			
	46	DENSITY @ OPERATING CONDITION		995.3 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 31 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980053			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS PCH-7A-2			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-TWS-980053-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 4 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER SUPPLY		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	31.5	31.5	31.5	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	2.013	2.047	2.051	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.77 Cp			
	46	DENSITY @ OPERATING CONDITION		995.3 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

FUTURE

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980056			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS PCH-7A-1			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-TWR-980056-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	37	37	37	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.05	1.08	1.09	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.69 Cp			
	46	DENSITY @ OPERATING CONDITION		993 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 33 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980057			
	2	SERVIÇE		COOLING WATER - COOLING TOWERS PCH-7A-2			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-TWR-980057-CS1-NI		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER RETURN		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	37	37	37	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.05	1.08	1.09	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	4.6 bar-g		67 ºC	
	45	VISCOSITY @ OPERATING CONDITION		0.69 Cp			
	46	DENSITY @ OPERATING CONDITION		993 kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

FUTURE

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **1**

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980060			
	2	SERVIÇE		DISTRIBUTION SYSTEM - CHILLED GLYCOL FOR BT-7A-1			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-GW0R-980060-CS1-CC			
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER (NOTE 1)		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	9.0	9.0	9.0	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.57	0.59	0.60	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.0 bar-g		39.1 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.52 Cp			
	46	DENSITY @ OPERATING CONDITION		1000 kg/m³			
	47	SUSPENDED SOLIDS (%)		-			
	48	M.M. / Z / Cp/Cv		-			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

1- THE INSTRUMENT SHALL BE PREPARED TO OPERATE WITH PROPYLENE GLICOL 10% IF REQUIRED.

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980075			
	2	SERVIÇE		GLYCOL FOR PCH-7A-1			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-GW0R-980075-CS1-CC			
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER (NOTE 1)		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	9.1	9.1	9.1	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.2	1.2	1.6	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.2 bar-g		39.1 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.52 Cp			
	46	DENSITY @ OPERATING CONDITION		1000 kg/m³			
	47	SUSPENDED SOLIDS (%)		-			
	48	M.M. / Z / Cp/Cv		-			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

1- THE INSTRUMENT SHALL BE PREPARED TO OPERATE WITH PROPYLENE GLICOL 10% IF REQUIRED.

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 36 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980077			
	2	SERVIÇE		GLYCOL FOR PCH-7A-2			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-GW0R-980077-CS1-CC		PCH-7A-2	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 2 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER (NOTE 1)		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	9.1	9.1	9.1	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	1.2	1.2	1.6	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.2 bar-g		39.1 ºC	
	45	VISCOSITY @ OPERATING CONDITION		1.52 Cp			
	46	DENSITY @ OPERATING CONDITION		1000 kg/m³			
	47	SUSPENDED SOLIDS (%)		-			
	48	M.M. / Z / Cp/Cv		-			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

FUTURE

NOTES:

1- THE INSTRUMENT SHALL BE PREPARED TO OPERATE WITH PROPYLENE GLICOL 10% IF REQUIRED.

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980080			
	2	SERVIÇE		GLYCOL DO PCH-7A-1 FOR BT-7A-1			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-GW0S-980080-CS1-CC		-	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 0,5 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER (NOTE 1)		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	5.0	5.0	5.0	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.18	0.18	0.28	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.0 bar-g		35 °C	
	45	VISCOSITY @ OPERATING CONDITION		1.5 cP			
	46	DENSITY @ OPERATING CONDITION		1000 kg/m³			
	47	SUSPENDED SOLIDS (%)		-			
	48	M.M. / Z / Cp/Cv		-			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

NOTES:

1- THE INSTRUMENT SHALL BE PREPARED TO OPERATE WITH PROPYLENE GLICOL 10% IF REQUIRED.

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-980083			
	2	SERVIÇE		GLYCOL DO PCH-7A-2 FOR BT-7A-1			
	3	P&ID		7A-M-0-5-45			
	4	PIPE LINE	EQUIPMENT NUMBER	7A-6"-GW0S-980083-CS1-CC		PCH-7A-2	
	5	EQUIPMENT MATERIAL / PIPE		CARBON STEEL ASTM-A106 Gr.B			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ALUMINIO (COPPER FREE)			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		HART			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1 bar-g			
	24	CONNECTION TO PROCESS (HIGH / LOW)		1/2" NPT (F)		NOT REQUIRED	
	25	ELECTRICAL CONNECTION		1/2" NPT (F)			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES, STAINLESS STEEL FOR 2" TUBE			
	37	MANIFOLD		NOT			
	38	LOCAL INDICATION		SIM, TIPO LCD (VER NOTAS GERAIS 8)			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	SURGE PROTECTOR		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	CHILLED WATER (NOTE 1)		LIQUID	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	5.0	5.0	5.0	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	0.18	0.18	0.28	bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	2.0 bar-g		35 °C	
	45	VISCOSITY @ OPERATING CONDITION		1.5 cP			
	46	DENSITY @ OPERATING CONDITION		1000 kg/m³			
	47	SUSPENDED SOLIDS (%)		-			
	48	M.M. / Z / Cp/Cv		-			
	49						
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar			
	51	MODEL		PMP-75 (E+H)			

FUTURE

NOTES:

1- THE INSTRUMENT SHALL BE PREPARED TO OPERATE WITH PROPYLENE GLICOL 10% IF REQUIRED.

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 39 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-EAV-A-2004-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2004	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL		-			
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)			
	21	SENSOR ELEMENT MATERIAL		316LSS			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 25 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		25	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		VECTUS or SIMILAR			
	51	MODEL		VEC-MS-2-W102 (VECTUS)			

NOTES:

1- CONEXÃO PARA TUBING PLASTICO OU SILICONE Ø6mm.

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 40 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-EAV-A-2048-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2048	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 12,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		25	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 41 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-EAV-A-2053-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2053	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 12,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		12.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 42 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2001-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2001	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2002-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-24			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2002	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 62,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		62.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 44 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2003-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2003	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 62,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		62.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 45 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2005-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2005	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 25 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		12.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 46 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2007-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2007	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 12,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		12.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2009-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2009	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 48 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2017-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2017	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 12,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		12.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 49 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2023-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2023	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 50 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2025-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-24			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2025	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 75 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		75	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 51 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2026-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-24			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2026	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 62,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		62.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 52 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2027-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-24			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2027	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 62,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		62.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 53 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2028-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2028	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 54 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2029-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2029	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 50 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		50	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 55 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2030-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2030	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 12,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		12.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 56 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2031-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-24			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2031	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 62,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		62.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 57 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2032-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-24			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2032	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 25 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		25	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 58 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2033-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2033	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 50 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		50	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2034-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2034	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 60 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2035-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2035	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 61 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2036-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2036	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 62 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2037-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2037	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 63 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2038-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2038	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 64 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2039-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-23			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2039	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 65 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2040-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2040	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 12,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		12.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 66 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2041-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2041	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 37,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		37.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 67 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2044-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2044	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 25 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		25	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		TESTO			
	51	MODEL		6321			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 68 de 81

REV.: 1

GENERAL	1	INSTRUMENT TAG NUMBER		PDT-RAV-A-2046-1			
	2	SERVIÇE		PRESSURE CONTROL IN ROOM			
	3	P&ID		7A-M-0-5-21			
	4	PIPE LINE	EQUIPMENT NUMBER	-		CLEAN ROOM A-2046	
	5	EQUIPMENT MATERIAL / PIPE		BY MANUFACTURER			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 12,5 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		12.5	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		VECTUS or SIMILAR			
	51	MODEL		VEC-MS-2-W102 (VECTUS)			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER		PT-AHU-7A-1-001			
	2	SERVIÇE		RETURN TEMPERATURE AIR IN THE DUCT			
	3	P&ID		7A-M-0-5-21			
	4	DUCT LINE	EQUIPMENT NUMBER	RETURN DUCT		7A-AHU-7A-1	
	5	EQUIPMENT MATERIAL / PIPE		-			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1000 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		VECTUS			
	51	MODEL		VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 70 de 81

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER			PT-AHU-7A-1-002		
	2	SERVIÇE			RETURN TEMPERATURE AIR IN THE DUCT		
	3	P&ID			7A-M-0-5-21		
	4	DUCT LINE	EQUIPMENT NUMBER		SUPPLY DUCT	7A-AHU-7A-1	
	5	EQUIPMENT MATERIAL / PIPE			-		
	6	AREA CLASSIFICATION			NOT CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 4)		
	9						
TRANSMITTER	10	TYPE			MICROPROCESSED		
	11	MOUNTING			REMOTE		
	12	BODY MATERIAL			316SS		
	13	BODY PRESSURE CLASS			BY MANUFACTURER		
	14	METER CASING			ABS		
	15	POWER SUPPLY			24 Vcc - 2 FIOS		
	16	OUTPUT SIGNAL			4 - 20 mA (500 ohms @ 24 Vcc)		
	17	COMMUNICATION PROTOCOL					
	18	PRECISION			± 0.075% F.E.		
	19	REPEATABILITY			BY MANUFACTURER		
	20	ELEMENT TYPE			BY MANUFACTURER		
	21	SENSOR ELEMENT MATERIAL			BY MANUFACTURER		
	22	CALIBRATION RANGE			BY MANUFACTURER		
	23	CALIBRATED RANGE			0 @ 1000 Pa		
	24	CONNECTION TO PROCESS (HIGH / LOW)			6 mm (NOTE 1)	6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION			BY MANUFACTURER		
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN			YES / YES		
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL			NOT REQUIRED		
	29	SEAL MATERIAL			NOT REQUIRED		
	30	CONNECTION TO PROCESS			NOT REQUIRED		
	31	FLANGE FACE FINISH			NOT REQUIRED		
	32	FILLING FLUID			NOT REQUIRED		
	33	CAPILLARY MATERIAL			NOT REQUIRED		
	34	CAPILLARY LENGTH			NOT REQUIRED		
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES			YES - PANEL BACKGROUND		
	37	INSTALLER KIT FOR CLEAN ROOM			YES FOR TUBING PLASTIC Ø6 mm		
	38	LOCAL INDICATION			NO		
	39	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 6)		
	40	CABLE GLAND			YES		
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION			Cp			
	46	DENSITY @ OPERATING CONDITION			kg/m³			
	47	SUSPENDED SOLIDS (%)			NO			
	48	M.M. / Z / Cp/Cv			... / ... / ...			
	49							
	50	MANUFACTURER			VECTUS			
	51	MODEL			VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER		PT-AHU-7A-2-001			
	2	SERVIÇE		RETURN TEMPERATURE AIR IN THE DUCT			
	3	P&ID		7A-M-0-5-22			
	4	DUCT LINE	EQUIPMENT NUMBER	RETURN DUCT		7A-AHU-7A-2	
	5	EQUIPMENT MATERIAL / PIPE		-			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1000 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		VECTUS			
	51	MODEL		VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER			PT-AHU-7A-2-002		
	2	SERVIÇE			RETURN TEMPERATURE AIR IN THE DUCT		
	3	P&ID			7A-M-0-5-22		
	4	DUCT LINE	EQUIPMENT NUMBER		SUPPLY DUCT	7A-AHU-7A-2	
	5	EQUIPMENT MATERIAL / PIPE			-		
	6	AREA CLASSIFICATION			NOT CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 4)		
	9						
TRANSMITTER	10	TYPE			MICROPROCESSED		
	11	MOUNTING			REMOTE		
	12	BODY MATERIAL			316SS		
	13	BODY PRESSURE CLASS			BY MANUFACTURER		
	14	METER CASING			ABS		
	15	POWER SUPPLY			24 Vcc - 2 FIOS		
	16	OUTPUT SIGNAL			4 - 20 mA (500 ohms @ 24 Vcc)		
	17	COMMUNICATION PROTOCOL					
	18	PRECISION			± 0.075% F.E.		
	19	REPEATABILITY			BY MANUFACTURER		
	20	ELEMENT TYPE			BY MANUFACTURER		
	21	SENSOR ELEMENT MATERIAL			BY MANUFACTURER		
	22	CALIBRATION RANGE			BY MANUFACTURER		
	23	CALIBRATED RANGE			0 @ 1000 Pa		
	24	CONNECTION TO PROCESS (HIGH / LOW)			6 mm (NOTE 1)	6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION			BY MANUFACTURER		
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN			YES / YES		
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL			NOT REQUIRED		
	29	SEAL MATERIAL			NOT REQUIRED		
	30	CONNECTION TO PROCESS			NOT REQUIRED		
	31	FLANGE FACE FINISH			NOT REQUIRED		
	32	FILLING FLUID			NOT REQUIRED		
	33	CAPILLARY MATERIAL			NOT REQUIRED		
	34	CAPILLARY LENGTH			NOT REQUIRED		
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES			YES - PANEL BACKGROUND		
	37	INSTALLER KIT FOR CLEAN ROOM			YES FOR TUBING PLASTIC Ø6 mm		
	38	LOCAL INDICATION			NO		
	39	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 6)		
	40	CABLE GLAND			YES		
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION			Cp			
	46	DENSITY @ OPERATING CONDITION			kg/m³			
	47	SUSPENDED SOLIDS (%)			NO			
	48	M.M. / Z / Cp/Cv			... / ... / ...			
	49							
	50	MANUFACTURER			VECTUS			
	51	MODEL			VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER		PT-AHU-7A-3-001			
	2	SERVIÇE		RETURN TEMPERATURE AIR IN THE DUCT			
	3	P&ID		7A-M-0-5-23			
	4	DUCT LINE	EQUIPMENT NUMBER	RETURN DUCT		7A-AHU-7A-3	
	5	EQUIPMENT MATERIAL / PIPE		-			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1000 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		VECTUS			
	51	MODEL		VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 74 de 81

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER			PT-AHU-7A-3-002		
	2	SERVIÇE			RETURN TEMPERATURE AIR IN THE DUCT		
	3	P&ID			7A-M-0-5-23		
	4	DUCT LINE	EQUIPMENT NUMBER		SUPPLY DUCT	7A-AHU-7A-3	
	5	EQUIPMENT MATERIAL / PIPE			-		
	6	AREA CLASSIFICATION			NOT CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 4)		
	9						
TRANSMITTER	10	TYPE			MICROPROCESSED		
	11	MOUNTING			REMOTE		
	12	BODY MATERIAL			316SS		
	13	BODY PRESSURE CLASS			BY MANUFACTURER		
	14	METER CASING			ABS		
	15	POWER SUPPLY			24 Vcc - 2 FIOS		
	16	OUTPUT SIGNAL			4 - 20 mA (500 ohms @ 24 Vcc)		
	17	COMMUNICATION PROTOCOL					
	18	PRECISION			± 0.075% F.E.		
	19	REPEATABILITY			BY MANUFACTURER		
	20	ELEMENT TYPE			BY MANUFACTURER		
	21	SENSOR ELEMENT MATERIAL			BY MANUFACTURER		
	22	CALIBRATION RANGE			BY MANUFACTURER		
	23	CALIBRATED RANGE			0 @ 1000 Pa		
	24	CONNECTION TO PROCESS (HIGH / LOW)			6 mm (NOTE 1)	6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION			BY MANUFACTURER		
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN			YES / YES		
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL			NOT REQUIRED		
	29	SEAL MATERIAL			NOT REQUIRED		
	30	CONNECTION TO PROCESS			NOT REQUIRED		
	31	FLANGE FACE FINISH			NOT REQUIRED		
	32	FILLING FLUID			NOT REQUIRED		
	33	CAPILLARY MATERIAL			NOT REQUIRED		
	34	CAPILLARY LENGTH			NOT REQUIRED		
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES			YES - PANEL BACKGROUND		
	37	INSTALLER KIT FOR CLEAN ROOM			YES FOR TUBING PLASTIC Ø6 mm		
	38	LOCAL INDICATION			NO		
	39	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 6)		
	40	CABLE GLAND			YES		
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION			Cp			
	46	DENSITY @ OPERATING CONDITION			kg/m³			
	47	SUSPENDED SOLIDS (%)			NO			
	48	M.M. / Z / Cp/Cv			... / ... / ...			
	49							
	50	MANUFACTURER			VECTUS			
	51	MODEL			VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER		PT-AHU-7A-4-001			
	2	SERVIÇE		RETURN TEMPERATURE AIR IN THE DUCT			
	3	P&ID		7A-M-0-5-24			
	4	DUCT LINE	EQUIPMENT NUMBER	RETURN DUCT		7A-AHU-7A-4	
	5	EQUIPMENT MATERIAL / PIPE		-			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1000 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		VECTUS			
	51	MODEL		VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER			PT-AHU-7A-4-002		
	2	SERVIÇE			RETURN TEMPERATURE AIR IN THE DUCT		
	3	P&ID			7A-M-0-5-24		
	4	DUCT LINE	EQUIPMENT NUMBER		SUPPLY DUCT	7A-AHU-7A-4	
	5	EQUIPMENT MATERIAL / PIPE			-		
	6	AREA CLASSIFICATION			NOT CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 4)		
	9						
TRANSMITTER	10	TYPE			MICROPROCESSED		
	11	MOUNTING			REMOTE		
	12	BODY MATERIAL			316SS		
	13	BODY PRESSURE CLASS			BY MANUFACTURER		
	14	METER CASING			ABS		
	15	POWER SUPPLY			24 Vcc - 2 FIOS		
	16	OUTPUT SIGNAL			4 - 20 mA (500 ohms @ 24 Vcc)		
	17	COMMUNICATION PROTOCOL					
	18	PRECISION			± 0.075% F.E.		
	19	REPEATABILITY			BY MANUFACTURER		
	20	ELEMENT TYPE			BY MANUFACTURER		
	21	SENSOR ELEMENT MATERIAL			BY MANUFACTURER		
	22	CALIBRATION RANGE			BY MANUFACTURER		
	23	CALIBRATED RANGE			0 @ 1000 Pa		
	24	CONNECTION TO PROCESS (HIGH / LOW)			6 mm (NOTE 1)	6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION			BY MANUFACTURER		
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN			YES / YES		
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL			NOT REQUIRED		
	29	SEAL MATERIAL			NOT REQUIRED		
	30	CONNECTION TO PROCESS			NOT REQUIRED		
	31	FLANGE FACE FINISH			NOT REQUIRED		
	32	FILLING FLUID			NOT REQUIRED		
	33	CAPILLARY MATERIAL			NOT REQUIRED		
	34	CAPILLARY LENGTH			NOT REQUIRED		
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES			YES - PANEL BACKGROUND		
	37	INSTALLER KIT FOR CLEAN ROOM			YES FOR TUBING PLASTIC Ø6 mm		
	38	LOCAL INDICATION			NO		
	39	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 6)		
	40	CABLE GLAND			YES		
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION			Cp			
	46	DENSITY @ OPERATING CONDITION			kg/m³			
	47	SUSPENDED SOLIDS (%)			NO			
	48	M.M. / Z / Cp/Cv			... / ... / ...			
	49							
	50	MANUFACTURER			VECTUS			
	51	MODEL			VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER			PT-AHU-7A-5-001		
	2	SERVIÇE			RETURN TEMPERATURE AIR IN THE DUCT		
	3	P&ID			7A-M-0-5-25		
	4	DUCT LINE	EQUIPMENT NUMBER		RETURN DUCT	7A-AHU-7A-5	
	5	EQUIPMENT MATERIAL / PIPE			-		
	6	AREA CLASSIFICATION			NOT CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 4)		
	9						
TRANSMITTER	10	TYPE			MICROPROCESSED		
	11	MOUNTING			REMOTE		
	12	BODY MATERIAL			316SS		
	13	BODY PRESSURE CLASS			BY MANUFACTURER		
	14	METER CASING			ABS		
	15	POWER SUPPLY			24 Vcc - 2 FIOS		
	16	OUTPUT SIGNAL			4 - 20 mA (500 ohms @ 24 Vcc)		
	17	COMMUNICATION PROTOCOL					
	18	PRECISION			± 0.075% F.E.		
	19	REPEATABILITY			BY MANUFACTURER		
	20	ELEMENT TYPE			BY MANUFACTURER		
	21	SENSOR ELEMENT MATERIAL			BY MANUFACTURER		
	22	CALIBRATION RANGE			BY MANUFACTURER		
	23	CALIBRATED RANGE			0 @ 1000 Pa		
	24	CONNECTION TO PROCESS (HIGH / LOW)			6 mm (NOTE 1)	6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION			BY MANUFACTURER		
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN			YES / YES		
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL			NOT REQUIRED		
	29	SEAL MATERIAL			NOT REQUIRED		
	30	CONNECTION TO PROCESS			NOT REQUIRED		
	31	FLANGE FACE FINISH			NOT REQUIRED		
	32	FILLING FLUID			NOT REQUIRED		
	33	CAPILLARY MATERIAL			NOT REQUIRED		
	34	CAPILLARY LENGTH			NOT REQUIRED		
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES			YES - PANEL BACKGROUND		
	37	INSTALLER KIT FOR CLEAN ROOM			YES FOR TUBING PLASTIC Ø6 mm		
	38	LOCAL INDICATION			NO		
	39	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 6)		
	40	CABLE GLAND			YES		
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION			Cp			
	46	DENSITY @ OPERATING CONDITION			kg/m³			
	47	SUSPENDED SOLIDS (%)			NO			
	48	M.M. / Z / Cp/Cv			... / ... / ...			
	49							
	50	MANUFACTURER			VECTUS			
	51	MODEL			VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER			PT-AHU-7A-5-002		
	2	SERVIÇE			RETURN TEMPERATURE AIR IN THE DUCT		
	3	P&ID			7A-M-0-5-25		
	4	DUCT LINE	EQUIPMENT NUMBER		SUPPLY DUCT	7A-AHU-7A-5	
	5	EQUIPMENT MATERIAL / PIPE			-		
	6	AREA CLASSIFICATION			NOT CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 4)		
	9						
TRANSMITTER	10	TYPE			MICROPROCESSED		
	11	MOUNTING			REMOTE		
	12	BODY MATERIAL			316SS		
	13	BODY PRESSURE CLASS			BY MANUFACTURER		
	14	METER CASING			ABS		
	15	POWER SUPPLY			24 Vcc - 2 FIOS		
	16	OUTPUT SIGNAL			4 - 20 mA (500 ohms @ 24 Vcc)		
	17	COMMUNICATION PROTOCOL					
	18	PRECISION			± 0.075% F.E.		
	19	REPEATABILITY			BY MANUFACTURER		
	20	ELEMENT TYPE			BY MANUFACTURER		
	21	SENSOR ELEMENT MATERIAL			BY MANUFACTURER		
	22	CALIBRATION RANGE			BY MANUFACTURER		
	23	CALIBRATED RANGE			0 @ 1000 Pa		
	24	CONNECTION TO PROCESS (HIGH / LOW)			6 mm (NOTE 1)	6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION			BY MANUFACTURER		
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN			YES / YES		
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL			NOT REQUIRED		
	29	SEAL MATERIAL			NOT REQUIRED		
	30	CONNECTION TO PROCESS			NOT REQUIRED		
	31	FLANGE FACE FINISH			NOT REQUIRED		
	32	FILLING FLUID			NOT REQUIRED		
	33	CAPILLARY MATERIAL			NOT REQUIRED		
	34	CAPILLARY LENGTH			NOT REQUIRED		
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES			YES - PANEL BACKGROUND		
	37	INSTALLER KIT FOR CLEAN ROOM			YES FOR TUBING PLASTIC Ø6 mm		
	38	LOCAL INDICATION			NO		
	39	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 6)		
	40	CABLE GLAND			YES		
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION			Cp			
	46	DENSITY @ OPERATING CONDITION			kg/m³			
	47	SUSPENDED SOLIDS (%)			NO			
	48	M.M. / Z / Cp/Cv			... / ... / ...			
	49							
	50	MANUFACTURER			VECTUS			
	51	MODEL			VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER		PT-AHU-7A-6-001			
	2	SERVIÇE		RETURN TEMPERATURE AIR IN THE DUCT			
	3	P&ID		7A-M-0-5-26			
	4	DUCT LINE	EQUIPMENT NUMBER	RETURN DUCT		7A-AHU-7A-6	
	5	EQUIPMENT MATERIAL / PIPE		-			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1000 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		VECTUS			
	51	MODEL		VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 80 de 81

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER		PT-AHU-7A-6-002			
	2	SERVIÇE		RETURN TEMPERATURE AIR IN THE DUCT			
	3	P&ID		7A-M-0-5-26			
	4	DUCT LINE	EQUIPMENT NUMBER	SUPPLY DUCT		7A-AHU-7A-6	
	5	EQUIPMENT MATERIAL / PIPE		-			
	6	AREA CLASSIFICATION		NOT CLASSIFIED			
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529			
	8	CERTIFICATES		(SEE GENERAL NOTES 4)			
	9						
TRANSMITTER	10	TYPE		MICROPROCESSED			
	11	MOUNTING		REMOTE			
	12	BODY MATERIAL		316SS			
	13	BODY PRESSURE CLASS		BY MANUFACTURER			
	14	METER CASING		ABS			
	15	POWER SUPPLY		24 Vcc - 2 FIOS			
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)			
	17	COMMUNICATION PROTOCOL					
	18	PRECISION		± 0.075% F.E.			
	19	REPEATABILITY		BY MANUFACTURER			
	20	ELEMENT TYPE		BY MANUFACTURER			
	21	SENSOR ELEMENT MATERIAL		BY MANUFACTURER			
	22	CALIBRATION RANGE		BY MANUFACTURER			
	23	CALIBRATED RANGE		0 @ 1000 Pa			
	24	CONNECTION TO PROCESS (HIGH / LOW)		6 mm (NOTE 1)		6 mm (NOTE 1)	
	25	ELECTRICAL CONNECTION		BY MANUFACTURER			
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES			
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		NOT REQUIRED			
	29	SEAL MATERIAL		NOT REQUIRED			
	30	CONNECTION TO PROCESS		NOT REQUIRED			
	31	FLANGE FACE FINISH		NOT REQUIRED			
	32	FILLING FLUID		NOT REQUIRED			
	33	CAPILLARY MATERIAL		NOT REQUIRED			
	34	CAPILLARY LENGTH		NOT REQUIRED			
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES		YES - PANEL BACKGROUND			
	37	INSTALLER KIT FOR CLEAN ROOM		YES FOR TUBING PLASTIC Ø6 mm			
	38	LOCAL INDICATION		NO			
	39	IDENTIFICATION PLATE		YES (SEE GENERAL NOTES 6)			
	40	CABLE GLAND		YES			
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE	AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL / MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL / MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION		Cp			
	46	DENSITY @ OPERATING CONDITION		kg/m³			
	47	SUSPENDED SOLIDS (%)		NO			
	48	M.M. / Z / Cp/Cv		... / ... / ...			
	49						
	50	MANUFACTURER		VECTUS			
	51	MODEL		VTPB-1200			

NOTES:

NUMBER:	569-DB7A-AIC-712-007	CLIENT NR:	PRD-AIC-DSH-054

TITLE

PRESSURE TRANSMITTER

SHEET: 81 de 81

REV.: **A**

GENERAL	1	INSTRUMENT TAG NUMBER			PT-DOAS-7A-001		
	2	SERVIÇE			RETURN TEMPERATURE AIR IN THE DUCT		
	3	P&ID			7A-M-0-5-28		
	4	DUCT LINE	EQUIPMENT NUMBER		SUPPLY DUCT		7A-DOAS-7A-1
	5	EQUIPMENT MATERIAL / PIPE			-		
	6	AREA CLASSIFICATION			NOT CLASSIFIED		
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529		
	8	CERTIFICATES			(SEE GENERAL NOTES 4)		
	9						
TRANSMITTER	10	TYPE			MICROPROCESSED		
	11	MOUNTING			REMOTE		
	12	BODY MATERIAL			316SS		
	13	BODY PRESSURE CLASS			BY MANUFACTURER		
	14	METER CASING			ABS		
	15	POWER SUPPLY			24 Vcc - 2 FIOS		
	16	OUTPUT SIGNAL			4 - 20 mA (500 ohms @ 24 Vcc)		
	17	COMMUNICATION PROTOCOL					
	18	PRECISION			± 0.075% F.E.		
	19	REPEATABILITY			BY MANUFACTURER		
	20	ELEMENT TYPE			BY MANUFACTURER		
	21	SENSOR ELEMENT MATERIAL			BY MANUFACTURER		
	22	CALIBRATION RANGE			BY MANUFACTURER		
	23	CALIBRATED RANGE			0 @ 1000 Pa		
	24	CONNECTION TO PROCESS (HIGH / LOW)			6 mm (NOTE 1)		6 mm (NOTE 1)
	25	ELECTRICAL CONNECTION			BY MANUFACTURER		
	26						
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN			YES / YES		
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL			NOT REQUIRED		
	29	SEAL MATERIAL			NOT REQUIRED		
	30	CONNECTION TO PROCESS			NOT REQUIRED		
	31	FLANGE FACE FINISH			NOT REQUIRED		
	32	FILLING FLUID			NOT REQUIRED		
	33	CAPILLARY MATERIAL			NOT REQUIRED		
	34	CAPILLARY LENGTH			NOT REQUIRED		
	35						
ACCESSORIES	36	MOUNTING ACCESSORIES			YES - PANEL BACKGROUND		
	37	INSTALLER KIT FOR CLEAN ROOM			YES FOR TUBING PLASTIC Ø6 mm		
	38	LOCAL INDICATION			NO		
	39	IDENTIFICATION PLATE			YES (SEE GENERAL NOTES 6)		
	40	CABLE GLAND			YES		
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATE		AIR		AIR	
	42	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	18	20	22	°C
	43	MINIMUM PRESSURE	NORMAL	MAXIMUM	ATM		1000	Pa
	44	DESIGN PRESSURE	DESIGN TEMPERATURE		Pa		ºC	
	45	VISCOSITY @ OPERATING CONDITION			Cp			
	46	DENSITY @ OPERATING CONDITION			kg/m³			
	47	SUSPENDED SOLIDS (%)			NO			
	48	M.M. / Z / Cp/Cv			... / ... / ...			
	49							
	50	MANUFACTURER			VECTUS			
	51	MODEL			VTPB-1200			

NOTES: