







DOC NUMBER:

569-DB7A-AIC-700-002

CLIENT NUMBER: PRD-AIC-DSH-001

CLIENT:

TAKEDA/BAXALTA

PROJECT:

BURITI EPCVM PROJECT

DATA SHEET - DRUG PRODUCT TRANSMITTERS PRESSURE-TEMPERATURE-HUMIDITY

2	27JAN2022	ISSUED FOR CONSTRUCTION CONSIDERING COMMENTS	MAV	MAF	RSP
1	25NOV2021	ISSUED FOR CONSTRUCTION CONSIDERING COMMENTS	MAB	MAF	RSP
0	30JUL2021	ISSUED FOR CONSTRUCTION	MAB	MAF	RSP
В	23JUL2021	90% DD ISSUE	MAB	MAF	RSP
Α	08FEB2021	30% DD ISSUE	MAB	MAF	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









NUMBER: 569-DB7A-AIC-700-002 CLIENT NR: PRD-AIC-DSH-001

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TRANSMITTERS

DOCUMENT REVIEW CONTROL

Revision	Α	В	0	1	2	3	Revision	Α	В	0	1	2	3	Revision	Α	В	0	1	2	I
Page							Page							Page						Ι
1	Х	Χ	Χ	Χ	Χ		26	Χ	Χ	Χ	Χ	Χ		51	Х	Χ	Χ	Χ	Χ	I
2	Х	Χ	Χ	Χ	Χ		27	Χ	Χ	Χ	Χ	Χ		52	Х	Χ	Χ	Χ	Χ	
3	Χ	Χ	Χ	Χ	Χ		28	Χ	Χ	Χ	Χ	Χ		53	Х	Χ	Χ	Χ	Χ	
4	Х	Χ	Χ	Χ	Χ		29	Χ	Χ	Χ	Χ	Χ		54	Х	Χ	Χ	Χ	Χ	
5	Х	Χ	Χ	Χ	Χ		30	Χ	Χ	Χ	Χ	Χ		55	Х	Χ	Χ	Χ	Χ	
6	Х	Χ	Χ	Χ	Χ		31	Χ	Χ	Χ	Χ	Χ		56	Х	Χ	Χ	Χ	Χ	Ī
7	Х	Χ	Χ	Χ	Χ		32	Χ	Χ	Χ	Χ	Χ		57	/	/	/	/	/	
8	Χ	Χ	Χ	Χ	Χ		33	Χ	Χ	Χ	Χ	Χ		58						
9	Х	Χ	Χ	Χ	Χ		34	Χ	Χ	Χ	Χ	Χ		59						
10	Χ	Χ	Χ	Χ	Χ		35	Χ	Χ	Χ	Χ	Χ		60						
11	Х	Χ	Χ	Χ	Χ		36	Χ	Χ	Χ	Χ	Χ		61						
12	Х	Χ	Χ	Χ	Χ		37	Χ	Χ	Χ	Χ	Χ		62						
13	Х	Χ	Χ	Χ	Χ		38	Χ	Χ	Χ	Χ	Χ		63						
14	Х	Χ	Χ	Χ	Χ		39	Χ	Χ	Χ	Χ	Χ		64						
15	Χ	Χ	Χ	Χ	Χ		40	Χ	Χ	Χ	Χ	Χ		65						
16	Х	Χ	Χ	Χ	Χ		41	Χ	Χ	Χ	Χ	Χ		66						
17	Х	Χ	Χ	Χ	Χ		42	Χ	Χ	Χ	Χ	Χ		67						
18	Х	Χ	Χ	Χ	Χ		43	Χ	Χ	Χ	Χ	Χ		68						
19	Х	Χ	Χ	Χ	Χ		44	Χ	Χ	Χ	Χ	Χ		69						
20	Х	Χ	Χ	Χ	Χ		45	Χ	Χ	Χ	Χ	Χ		70						
21	Х	Χ	Χ	Χ	Χ		46	Χ	Χ	Χ	Χ	Χ		71						
22	Х	Χ	Χ	Χ	Χ		47	Χ	Χ	Χ	Χ	Χ		72						
23	Х	Χ	Χ	Χ	Χ		48	Χ	Χ	Χ	Χ	Χ		73						•
24	Х	Χ	Χ	Χ	Χ		49	Χ	Χ	Χ	Χ	Χ		74						•
25	Х	Х	Х	Х	Х		50	Х	Х	Х	Х	Х		75						1

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NUMBER: 569-DB7A-AIC-700-002 CLIENT NR: PRD-AIC-DSH-001

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TRANSMITTERS

REV.:

REFERENCE DOCUMENTS

7A-M-0-5-21/ 7A-M-0-5-22/ 7A-M-0-5-23/ 7A-M-0-5-24/ 7A-M-0-5-25/ 7A-M-0-5-26 & 7A-M-0-5-26a - DRUG PRODUCT AFDs 7A-I-0-7-03_EMS_ARCHITECTURE

GENERAL NOTES

- 1- Differential pressure transmiTITers in cleanroom-conform panel design must have the following characteristics:
 - a) They must be electronic, intelligent and programmable, with signal transmission from 4 to 20mA to two galvanically isolated wires from the power supply;
 - b) Flat housing allows flush surface integration in the cleanroom wall;
 - c) Self-monitoring of the transmiTITer and early warning function guaranteeing high system availability;
 - d) Be able to define the output signal value, programmable in 0% or 100% of the range, in case of failure of the sensor element;
 - e) Configurable alarm management with adjustable response delay and alarm acknowledgement;
 - f) External supply at 24Vdc
- 2- All transmitters must have enclosures, whose parts exposed to the atmosphere are resistant to environmental conditions, including those generated by the condition of the process, enabling light external cleaning.
- 3- The identification plates must be manufactured in stainless steel AISI 304, permanently attached to the instruments with tag and serial number. The serial number of the instrument, when possible, can be engraved on the body itself.
- 4- The manufacturer must inform in the catalog of the transmitter the dimensions of the same for installation in the place indicated in the project.
- 5- The liquid crystal instrument display with internal illumination for all the information that is necessary for its calibration and indication of necessary variables.
- 6- 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.
- 7- Grounding rings must be provided in compatible material, with the instrument box and easy access for assembly, being at least AISI 316
- 8- The data presented in the data sheets were taken from the document: 7A-M-0-5-21/7A-M-0-5-22/7A-M-0-5-23/7A-M-0-5-24/7A-M-0-5-25/7A-M-0-5-26 & 7A-M-0-5-26a DRUG PRODUCT AFDs.

REVISION 1 - NOTES	
1- ADDED BUILDING NAME	
REVISION 2 - NOTES	
1- UPDATED REFERENCE DOCUMENTS	
1- OF DATED REFERENCE DOCOMENTS	









TITLE

TRANSMITTERS

4 de 56 REV.:

								2	
	1	INSTRUMENT TAG NUMBE	R			PDI	T-A2003-001		
	2	SERVIÇE			DI	FFERENTIAL P	RESSURE - ROOM	A2003	
	3	P&ID				7	A-I-0-7-03		
4 L	4	PIPE LINE	EQUIPMENT NUM	/BER	-			=	
GENERAL	5	EQUIPMENT MATERIAL / PI	IPE .		FRONT I	PLATE STAINLE	ESS STEEL, HOUSII	NG PLASTIC	
GE/	6	AREA CLASSIFICATION			NOT CLASSIFIED				
· -	7	ENCLOSURE CLASSIFICAT	TON				IP-65		
	8	CERTIFICATES				(SEE GE	NERAL NOTES 6)		
	9				(022 02/12/07/20 0)				
	-	DIAMETER OF SENSOR FR	ONT / CONENECTION	BACK		12	2mm / 6mm		
1	10	TUBE MATERIAL				STAII	NLESS STEEL		
-	_	COATING MATERIAL					TURING STANDARD)	
		ELECTRODE MATERIAL					316SS		
ַנֵּע <u> </u>	_	GROUNDING RING MATER	IAI			VES (SEE G	SENERAL NOTES	7)	
⊎ ⊩	_	CONNECTIONS	<i>I</i> /1L				ABLE HOSES		
_ <u> </u> _		LOCAL TEMPERATURE				3011	22°C		
\vdash	_	FLANGE FACE FINISH					22 0		
-	_	ELECTRICAL CONNECTION				BACKBACK IN	POSTS IDENTIFICA	TES	
_			v		<u> </u>			IES	
-	-	MOUNTING					THE WALL		
		POWER SUPPLY					/cc - 2 WIRE	17.	
$\frac{1}{2}$	_	OUTPUT SIGNAL	201		4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
		COMMUNICATION PROTOC	COL				-		
		PRECISION					0.3% F.E.		
2	_	REPEATABILITY			TURING STANDARD				
$\frac{1}{2}$	_	ELECTRICAL CONNECTION			TURING STANDARD)			
- L		LOCAL INDICATION			, LCD FRONT				
	_	RANGE OF PRESSURE) to 100pA				
$\frac{1}{2}$	_	CALIBRATED RANGE PRES					62,5Pa		
Ľ	-	KEYBOARD FOR LOCAL CO	ONFIGURATION		YES				
-	-	METER CASING			<u>-</u>				
		PULSE OUTPUT			- VEC (CEE CENERAL NOTES 2)				
3 3		TAGGING			YES (SEE GENERAL NOTES 3)				
3 3	_	SURGE PROTECTOR			YES 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU				
3 3	33	DISPLAY			3 LINE LO	CD WITH MULT	I LINGUAGE OPERA	ATING MENU	
) —	34								
ξ 3	35		T.				1		
-	_	FLUID	PHYSICAL STATUS		Ai	R	G	GAS	
-	-	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-	
		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-	
<u> </u>			NORMAL	MAXIMUM	-	-	-		
5 4	-	PROJECT FLOW	DE0/01/ TE1/1==	ATUDE	1		1		
	-	DESIGN PRESSURE	DESIGN TEMPER	RATURE		bar-g		℃	
í	_	DENSITY @ OPERATING C					kg/m³		
4	-	VISCOSITY @ OPERATING	CONDITION				Ср		
i	•	FLUID CONDUCTIVITY					μS/cm²		
5 4	_	INCRUSTATION					NO		
4	_	SUSPENDED SOLIDS (%)	NO						
\vdash		MAXIMUM LOSS OF LOAD	- bar						
4	4 8								
\vdash	•	MANUFACTURER		TEST	O OR SIMILAR				
5	50	MODEL							









TITLE

TRANSMITTERS

SHEET: 5 de 56 REV.:

							2	
1	INSTRUMENT TAG NUMBE	R			PDIT-/	A2004-001		
2	SERVIÇE			Di	IFFERENTIAL PRE	ESSURE - ROOM A2	2004	
3	P&ID				7A-	I-0-7-03		
4	PIPE LINE	EQUIPMENT	NUMBER		-	-		
5 6	EQUIPMENT MATERIAL / F	PIPE		FRONT	PLATE STAINLES	S STEEL, HOUSING	9 PLASTIC	
6	AREA CLASSIFICATION			NOT CLASSIFIED				
7	ENCLOSURE CLASSIFICA	TION			I	IP-65		
8	CERTIFICATES				(SEE GENE	ERAL NOTES 6)		
9								
9	DIAMETER OF SENSOR FI	RONT / CONENECT	ION BACK	12mm / 6mm				
10	TUBE MATERIAL				STAINL	ESS STEEL		
11	COATING MATERIAL				MANUFACTU	RING STANDARD		
12	ELECTRODE MATERIAL				3	16SS		
13	GROUNDING RING MATER	RIAL			YES (SEE GE	NERAL NOTES 7	")	
13	CONNECTIONS				SUITAE	BLE HOSES		
15	LOCAL TEMPERATURE				2	22℃		
16	FLANGE FACE FINISH					-		
17	ELECTRICAL CONNECTIO	N			BACKPACK IN PO	OSTS IDENTIFICATE	ES	
18	MOUNTING				ON T	HE WALL		
19	POWER SUPPLY				24 Vcc	c - 2 WIRE		
20	OUTPUT SIGNAL			4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
21	COMMUNICATION PROTO	COL				-		
22	PRECISION		± 0.	3% F.E.				
23	REPEATABILITY					RING STANDARD		
24	ELECTRICAL CONNECTIO		MANUFACTU	RING STANDARD				
25	LOCAL INDICATION		YES, L	CD FRONT				
26	RANGE OF PRESSURE		0 to	100Pa				
27	CALIBRATED RANGE PRE	SSURE			2	25Pa		
21 22 23 24 25 26 27 28	KEYBOARD FOR LOCAL C	ONFIGURATION		YES				
29	METER CASING							
30	PULSE OUTPUT							
31	TAGGING				YES (SEE GE	NERAL NOTES 3)		
32	SURGE PROTECTOR					YES		
32 33 34 35	DISPLAY			3 LINE L	CD WITH MULTI L	INGUAGE OPERAT	ING MENU	
34	!							
35	i							
36	FLUID	PHYSICAL STATU	S	Α	IR	GA	S	
37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-	
38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-	
39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-	
40	PROJECT FLOW							
41	DESIGN PRESSURE	DESIGN TEM	PERATURE		bar-g		°C	
42	DENSITY @ OPERATING (CONDITION				kg/m³		
43		CONDITION			•	Ср		
44	FLUID CONDUCTIVITY				μ	S/cm²		
45	INCRUSTATION					NO		
46	SUSPENDED SOLIDS (%)	NO						
47	MAXIMUM LOSS OF LOAD ALLOWED			- bar				
48								
49	MANUFACTURER	TESTO OR SIMILAR						
50	MODEL							









TITLE

TRANSMITTERS

SHEET: 6 de 56 REV.:

							2	
1	INSTRUMENT TAG NUMBE	R			PDIT-A	A2009-001	-	
2	SERVIÇE			Di	IFFERENTIAL PRE	SSURE - ROOM A2	009	
3	P&ID				7A-	I-0-7-03		
{ 4	PIPE LINE	EQUIPMENT I	NUMBER		-	-		
5 6	EQUIPMENT MATERIAL / F	PIPE		FRONT	PLATE STAINLES	S STEEL, HOUSING	PLASTIC	
6	AREA CLASSIFICATION			NOT CLASSIFIED				
7	ENCLOSURE CLASSIFICA	TION			1.	P-65		
8	CERTIFICATES				(SEE GENE	RAL NOTES 6)		
9								
9	DIAMETER OF SENSOR F	RONT / CONENECT	ION BACK	12mm / 6mm				
10	TUBE MATERIAL				STAINL	ESS STEEL		
11	COATING MATERIAL				MANUFACTUI	RING STANDARD		
12	ELECTRODE MATERIAL				3	16SS		
13	GROUNDING RING MATER	RIAL			YES (SEE GEI	NERAL NOTES 7,)	
13	CONNECTIONS				SUITAE	BLE HOSES		
15	LOCAL TEMPERATURE				2	22°C		
16	FLANGE FACE FINISH					-		
17	ELECTRICAL CONNECTIO	N			BACKPACK IN PC	STS IDENTIFICATE	S	
18	MOUNTING				ON TI	HE WALL		
19	POWER SUPPLY				24 Vcc	- 2 WIRE		
20	OUTPUT SIGNAL			4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
21	COMMUNICATION PROTO	COL				-		
22	PRECISION					3% F.E.		
23	REPEATABILITY					RING STANDARD		
24	ELECTRICAL CONNECTIO		MANUFACTUI	RING STANDARD				
25	LOCAL INDICATION		YES, LO	CD FRONT				
26	RANGE OF PRESSURE		0 to	100Pa				
27	CALIBRATED RANGE PRE	SSURE			37	7,5Pa		
21 22 23 24 25 26 27 28	KEYBOARD FOR LOCAL C	ONFIGURATION		YES				
29	METER CASING							
30	PULSE OUTPUT							
31	TAGGING				YES (SEE GE	NERAL NOTES 3)		
32	SURGE PROTECTOR				•	YES		
32 33 34 35	DISPLAY			3 LINE L	CD WITH MULTI L	INGUAGE OPERAT	ING MENU	
34	!							
35	i							
36	FLUID	PHYSICAL STATU	S	Α	IR	GA	S	
37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-		-	
38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-	
39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-	
40	PROJECT FLOW							
41	DESIGN PRESSURE	DESIGN TEMI	PERATURE		bar-g		°C	
42	DENSITY @ OPERATING (CONDITION			, , ,	kg/m³		
43		CONDITION			(Ср		
44	FLUID CONDUCTIVITY				μ	S/cm²		
45	INCRUSTATION					NO		
46	SUSPENDED SOLIDS (%)	NO						
47	MAXIMUM LOSS OF LOAD ALLOWED			- bar				
48								
49	MANUFACTURER	TESTO OR SIMILAR						
50	MODEL							









TITI F

TRANSMITTERS

SHFFT: 7 de 56 REV.:

2 INSTRUMENT TAG NUMBER PDIT-A2017-001-1 SERVIÇE DIFFERENTIAL PRESSURE - ROOM A2017 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR FRONT / CONENECTION BACK 12mm / 6mm TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 14 CONNECTIONS SUITABLE HOSES 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 24 **ELECTRICAL CONNECTION** MANUFACTURING STANDARD 25 LOCAL INDICATION YES, LCD FRONT RANGE OF PRESSURE 26 0 to 100Pa CALIBRATED RANGE PRESSURE 12.5Pa 27 KEYBOARD FOR LOCAL CONFIGURATION YES METER CASING 29 **PULSE OUTPUT** 30 **TAGGING** YES (SEE GENERAL NOTES 3) 31 **ACCESSORIES** SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW DESIGN TEMPERATURE °C DESIGN PRESSURE Pa 41 DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO NO SUSPENDED SOLIDS (%) 46 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









TITI F

TRANSMITTERS

SHFFT: 8 de 56

REV.: 2 INSTRUMENT TAG NUMBER PDIT-A2017-001-2 SERVIÇE DIFFERENTIAL PRESSURE - ROOM A2017 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR FRONT / CONENECTION BACK 12mm / 6mm TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 14 CONNECTIONS SUITABLE HOSES 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 24 **ELECTRICAL CONNECTION** MANUFACTURING STANDARD 25 LOCAL INDICATION YES, LCD FRONT RANGE OF PRESSURE 26 0 to 100Pa CALIBRATED RANGE PRESSURE 12.5Pa 27 KEYBOARD FOR LOCAL CONFIGURATION YES METER CASING 29 **PULSE OUTPUT** 30 **TAGGING** YES (SEE GENERAL NOTES 3) 31 **ACCESSORIES** SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW DESIGN TEMPERATURE °C DESIGN PRESSURE Pa 41 DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO NO SUSPENDED SOLIDS (%) 46 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









PRD-AIC-DSH-001 569-DB7A-AIC-700-002 CLIENT NR: NUMBER:

TITLE

TRANSMITTERS

SHEET: 9 de 56 REV.:

								2		
	1	INSTRUMENT TAG NUMBE	R			PDIT-	A2028-001	L		
	2	SERVIÇE			DI	FFERENTIAL PRE	ESSURE - ROOM A2	028		
	3	P&ID				7A-	·I-0-7-03			
ΑF	4	PIPE LINE	EQUIPMENT NUN	/BER		-	-			
IER.	5	EQUIPMENT MATERIAL / P.	IPE		FRONT	PLATE STAINLES	S STEEL, HOUSING	PLASTIC		
GENERAL	6	AREA CLASSIFICATION				NOT C	LASSIFIED			
	7	ENCLOSURE CLASSIFICAT	TON				IP-65			
	8	CERTIFICATES				(SEE GENE	ERAL NOTES 6)			
	9					-	<u> </u>			
	9	DIAMETER OF SENSOR FR	ONT / CONENECTION	BACK	12mm / 6mm					
	10	TUBE MATERIAL				STAINL	ESS STEEL			
	11	COATING MATERIAL				MANUFACTU	RING STANDARD			
~	12	ELECTRODE MATERIAL				3	316SS			
METER	13	GROUNDING RING MATER	IAL			YES (SEE GE	NERAL NOTES 7)		
ME	14	CONNECTIONS				SUITAE	BLE HOSES			
	15	LOCAL TEMPERATURE					22°C			
	16	FLANGE FACE FINISH					-			
	17	ELECTRICAL CONNECTION	V			BACKPACK IN PO	OSTS IDENTIFICATE	S		
	18	MOUNTING				ON T	HE WALL			
	19	POWER SUPPLY				24 Vc	c - 2 WIRE			
۵	20	OUTPUT SIGNAL			4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)					
TE	21	COMMUNICATION PROTOC	COL				-			
SMI	22	PRECISION				± 0.	3% F.E.			
AN	23	REPEATABILITY				MANUFACTU	RING STANDARD			
CONVERTER / TRANSMITTER	24	ELECTRICAL CONNECTION		MANUFACTU	RING STANDARD					
ER.	25	LOCAL INDICATION				YES, L	CD FRONT			
ERT	26	RANGE OF PRESSURE				0 to	o 100Pa			
NV	27	CALIBRATED RANGE PRES	SSURE			3	7,5Pa			
\mathcal{S}	28	KEYBOARD FOR LOCAL CO	ONFIGURATION				YES			
	29	METER CASING			-					
	30	PULSE OUTPUT					-			
S	31	TAGGING			YES (SEE GENERAL NOTES 3)					
RIE	32	SURGE PROTECTOR					YES			
SSC	33	DISPLAY			3 LINE L	CD WITH MULTI L	INGUAGE OPERAT	ING MENU		
ACCESSORIES	34									
ΑC	35									
	36	FLUID	PHYSICAL STATUS		A	IR	GA	s		
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
,	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-		
ONS	39		NORMAL	MAXIMUM	-	-	-	-		
ITIC	40	PROJECT FLOW								
OPERATING CONDITIONS	41	DESIGN PRESSURE	DESIGN TEMPER	RATURE		Pa		℃		
) ()	42	DENSITY @ OPERATING C					kg/m³			
NIT I	43	VISCOSITY @ OPERATING	CONDITION				Ср			
ER4						μ	IS/cm²			
OP	45	INCRUSTATION					NO			
	46	SUSPENDED SOLIDS (%)	NO							
	47	MAXIMUM LOSS OF LOAD	- bar							
Н	48	MANUEACTURES	TEOTO OD 04/4/ AD							
	49	MANUFACTURER			TESTO OR SIMILAR					
Ш	50	MODEL								









TITLE

TRANSMITTERS

SHEET: 10 de 56 REV.:

								2	
	1	INSTRUMENT TAG NUMBE	R			PDIT-	-A2029-001-1		
	2	SERVIÇE			DI	FFERENTIAL PI	RESSURE - ROOM A20	029	
	3	P&ID				7/	4-1-0-7-03		
ΑΓ	4	PIPE LINE	EQUIPMENT NUI	MBER		-	-		
GENERAL	5	EQUIPMENT MATERIAL / P	IPE .		FRONT	PLATE STAINLE	SS STEEL, HOUSING	PLASTIC	
GEI	6	AREA CLASSIFICATION				NOT	CLASSIFIED		
	7	ENCLOSURE CLASSIFICAT	TION				IP-65		
	8	CERTIFICATES				(SEE GEI	NERAL NOTES 6)		
	9								
	9	DIAMETER OF SENSOR FR	RONT / CONENECTION	I BACK	12mm / 6mm				
	10	TUBE MATERIAL				STAIN	ILESS STEEL		
	11	COATING MATERIAL				MANUFACT	URING STANDARD		
æ	12	ELECTRODE MATERIAL					316SS		
METER	13	GROUNDING RING MATER	IAL			YES (SEE G	ENERAL NOTES 7)		
M	14	CONNECTIONS				SUITA	ABLE HOSES		
	15	LOCAL TEMPERATURE					22°C		
	16	FLANGE FACE FINISH					-		
	17	ELECTRICAL CONNECTION	V			BACKPACK IN F	POSTS IDENTIFICATES	S	
	18	MOUNTING				ON	THE WALL		
		POWER SUPPLY				24 V	/cc - 2 WIRE		
ĸ	20	OUTPUT SIGNAL			4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
Ţ	21	COMMUNICATION PROTO	COL				-		
ISM		PRECISION				±	0.3% F.E.		
/TRANSMITTER	23	REPEATABILITY				MANUFACT	URING STANDARD		
1/1	24	ELECTRICAL CONNECTION		MANUFACT	URING STANDARD				
TEF		LOCAL INDICATION				YES,	LCD FRONT		
CONVERTER	26	RANGE OF PRESSURE		0	to 100Pa				
NO	27	CALIBRATED RANGE PRES	SSURE				37,5Pa		
0	_	KEYBOARD FOR LOCAL C	ONFIGURATION				YES		
	_	METER CASING			-				
	30	PULSE OUTPUT			- VEO (DEE DENERAL NOTES S)				
ES	31				YES (SEE GENERAL NOTES 3)				
ACCESSORIES		SURGE PROTECTOR			YES 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU				
ESS		DISPLAY			3 LINE L	CD WITH MULTI	LINGUAGE OPERATII	NG MENU	
CC	34								
1	35	51.110	DUNGIONI OTATUO		+	10	0.46		
		FLUID	PHYSICAL STATUS	A 4 A 3 Z 1 A 41 1 A 4		IR	GAS	j .	
	_	MINIMUM FLOW	NORMAL	MAXIMUM	-	 	-	-	
SI		MINIMUM PRESSURE MINIMUM TEMPERATURE	NORMAL NORMAL	MAXIMUM MAXIMUM	-	-	-	-	
707	39 40	PROJECT FLOW	NONIVIAL	IVIAAIIVIOIVI	<u> </u>	1 -		-	
VDI	41	DESIGN PRESSURE	DESIGN TEMPER	RATURE	1	Pa Pa	0	C	
CONDITIONS	41	DENSITY @ OPERATING C		UITORLE	1	ı u	kg/m³		
NG	43				1		Ср		
OPERATING			22.12.11011				μS/cm²		
PEF		INCRUSTATION					NO		
0		SUSPENDED SOLIDS (%)			NO				
		MAXIMUM LOSS OF LOAD	- bar						
	48	3000310							
	49 MANUFACTURER				TESTO OR SIMILAR				
	_	MODEL		.25.5 61 6111111					
		1			I				









TITI F

TRANSMITTERS

SHFFT: 11 de 56

2 INSTRUMENT TAG NUMBER PDIT-A2029-001-2 SERVIÇE DIFFERENTIAL PRESSURE - ROOM A2029 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR FRONT / CONENECTION BACK 12mm / 6mm TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 14 CONNECTIONS SUITABLE HOSES 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 MANUFACTURING STANDARD 24 **ELECTRICAL CONNECTION** 25 LOCAL INDICATION YES, LCD FRONT RANGE OF PRESSURE 26 0 to 100Pa CALIBRATED RANGE PRESSURE 37.5Pa 27 KEYBOARD FOR LOCAL CONFIGURATION YES METER CASING 29 **PULSE OUTPUT** 30 **TAGGING** YES (SEE GENERAL NOTES 3) 31 **ACCESSORIES** SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW DESIGN TEMPERATURE °C DESIGN PRESSURE Pa 41 DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO NO SUSPENDED SOLIDS (%) 46 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









NUMBER: 569-DB7A-AIC-700-002 CLIENT NR: PRD-AIC-DSH-001

TITLE

TRANSMITTERS

SHEET: 12 de 56 REV.:

								2		
	1	INSTRUMENT TAG NUMB	ER			PDIT-A	2030-001-1			
ĺ	2	SERVIÇE			Di	IFFERENTIAL PRE	SSURE - ROOM A2	030		
	3	P&ID				7A-1	I-0-7-03			
¥	4	PIPE LINE	EQUIPMENT	NUMBER		-	-			
IER	5	EQUIPMENT MATERIAL /	PIPE .		FRONT	PLATE STAINLES	S STEEL, HOUSING	PLASTIC		
GENERAL	6	AREA CLASSIFICATION				NOT C	LASSIFIED			
Ĭ		ENCLOSURE CLASSIFICA	ATION			1	P-65			
ŀ	-	CERTIFICATES				(SFF GFNF	ERAL NOTES 6)			
ŀ	9	02020				(022 02.12				
		DIAMETER OF SENSOR F	RONT / CONENECT	TION BACK	12mm / 6mm					
ŀ		TUBE MATERIAL	NONT / CONLINEO	TON BACK	12mm / 6mm STAINLESS STEEL					
ŀ	-	COATING MATERIAL			MANUFACTURING STANDARD					
I										
METER		ELECTRODE MATERIAL					16SS			
JET		GROUNDING RING MATE	RIAL				NERAL NOTES 7)	<u> </u>		
^		CONNECTIONS					BLE HOSES			
		LOCAL TEMPERATURE				2	22℃			
	-	FLANGE FACE FINISH			-					
	17	ELECTRICAL CONNECTION	ON			BACKPACK IN PC	STS IDENTIFICATE	:S		
	18	MOUNTING				ON TI	HE WALL			
		POWER SUPPLY				24 Vcc	- 2 WIRE			
<u>بر</u>	20	OUTPUT SIGNAL				4 - 20 mA - 2 WIRE	(500 ohms @ 24 Vo	;c)		
Ë [21	COMMUNICATION PROTO	OCOL		-					
SMI	22	PRECISION		± 0	3% F.E.					
2/1K	23	REPEATABILITY		MANUFACTUI	RING STANDARD					
	24	ELECTRICAL CONNECTION		MANUFACTUI	RING STANDARD					
ER	25	LOCAL INDICATION		YES, LO	CD FRONT					
ER1	26	RANGE OF PRESSURE		0 to	100Pa					
$\tilde{\geq}$	27	CALIBRATED RANGE PRE	ESSURE			37	7,5Pa	-		
႘	28	KEYBOARD FOR LOCAL (CONFIGURATION			,	YES			
ı	29	METER CASING			-					
ŀ		PULSE OUTPUT								
<u>,</u>		TAGGING				YES (SEE GE	NERAL NOTES 3)			
SE ES		SURGE PROTECTOR			YES					
SO		DISPLAY			3 LINE L		INGUAGE OPERAT	ING MENU		
ËS	34	DIOI EAT			0 2.712 2	OD WITH MOETIE		110 1112/10		
ACCESSORIES	35									
Ì		FLUID	PHYSICAL STATU	10	Α.	IR	GA.	<u> </u>		
ŀ		MINIMUM FLOW	NORMAL			"	- J			
			_	MAXIMUM MAXIMUM		+ - +	-	-		
ω		MINIMUM PRESSURE	NORMAL		=		-	-		
<u> </u>		MINIMUM TEMPERATURE	NURMAL	MAXIMUM	-	-	-	-		
[0]		PROJECT FLOW	DE0/01/ T=1	ADED ATUSE						
္က		DESIGN PRESSURE	DESIGN TEN	IPEKA I UKE		Pa		℃		
g g		DENSITY @ OPERATING					kg/m³			
£	43		G CONDITION				Ср			
OPERATING CONDITIONS		FLUID CONDUCTIVITY			μS/cm²					
OP		INCRUSTATION					NO			
	46	SUSPENDED SOLIDS (%)					NO			
	47	MAXIMUM LOSS OF LOAD	O ALLOWED		-	bar				
	48									
	49	MANUFACTURER			TESTO OR SIMILAR					
ı	50	MODEL								









TITI F

TRANSMITTERS

SHFFT: 13 de 56

2 INSTRUMENT TAG NUMBER PDIT-A2030-001-2 SERVIÇE DIFFERENTIAL PRESSURE - ROOM A2030 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR FRONT / CONENECTION BACK 12mm / 6mm TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 14 CONNECTIONS SUITABLE HOSES 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 MANUFACTURING STANDARD 24 **ELECTRICAL CONNECTION** 25 LOCAL INDICATION YES, LCD FRONT RANGE OF PRESSURE 26 0 to 100Pa CALIBRATED RANGE PRESSURE 37.5Pa 27 KEYBOARD FOR LOCAL CONFIGURATION YES METER CASING 29 **PULSE OUTPUT** 30 **TAGGING** YES (SEE GENERAL NOTES 3) 31 ACCESSORIES SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW DESIGN TEMPERATURE °C DESIGN PRESSURE Pa 41 DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO NO SUSPENDED SOLIDS (%) 46 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









PRD-AIC-DSH-001 569-DB7A-AIC-700-002 CLIENT NR: NUMBER:

TITLE

TRANSMITTERS

SHEET: 14 de 56 REV.:

								2	
	1	INSTRUMENT TAG NUMBE	ER			PDIT-A	2038-001-1		
	2	SERVIÇE			DIFF	ERENTIAL PRI	ESSURE - ROOM A2	2038	
	3	P&ID				7A-	I-0-7-03		
GENERAL	4	PIPE LINE	EQUIPMEN	T NUMBER	-		-		
Ž	5	EQUIPMENT MATERIAL / P	PIPE		FRONT PL	ATE STAINLES	S STEEL, HOUSING	9 PLASTIC	
9	6	AREA CLASSIFICATION				NOTO	LASSIFIED		
ſ	7	ENCLOSURE CLASSIFICA	TION				P-65		
	8	CERTIFICATES				(SEE GENE	ERAL NOTES 6)		
	9								
	9	DIAMETER OF SENSOR FF	RONT / CONENEC	CTION BACK	12mm / 6mm				
	10	TUBE MATERIAL				STAINL	ESS STEEL		
	11	COATING MATERIAL			MANUFACTURING STANDARD				
I	12	ELECTRODE MATERIAL				3	16SS		
	13	GROUNDING RING MATER	RIAL		,	YES (SEE GE	NERAL NOTES 7	")	
I	14	CONNECTIONS				SUITAL	BLE HOSES		
		LOCAL TEMPERATURE			22°C				
		FLANGE FACE FINISH					-		
	17	ELECTRICAL CONNECTION	N		BA	ACKPACK IN PO	STS IDENTIFICATI	ES	
I	18	MOUNTING				ON T	HE WALL		
	-	POWER SUPPLY				24 Vc	c - 2 WIRE		
	20	OUTPUT SIGNAL			4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
		COMMUNICATION PROTO	COL		·				
		PRECISION				± 0.	3% F.E.		
VERTER/TR	23	REPEATABILITY				MANUFACTU	RING STANDARD		
	24	ELECTRICAL CONNECTION		MANUFACTU	RING STANDARD				
		LOCAL INDICATION		YES, L	CD FRONT				
	26	RANGE OF PRESSURE		0 to) 100Pa				
	27	CALIBRATED RANGE PRE			3	7,5Pa			
	28	KEYBOARD FOR LOCAL C	ONFIGURATION		YES				
	29	METER CASING			-				
	30	PULSE OUTPUT			-				
		TAGGING			YES (SEE GENERAL NOTES 3)				
	_	SURGE PROTECTOR			YES				
	33	DISPLAY			3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU				
	34								
	35					-			
		FLUID	PHYSICAL STAT		AIR	,	GA	S	
	_	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-	
		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-	
		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-	
	_	PROJECT FLOW				<u>, </u>			
		DESIGN PRESSURE		MPERATURE		Pa		℃	
l		DENSITY @ OPERATING C					kg/m³		
	_		CONDITION				Ср		
		FLUID CONDUCTIVITY				μ	S/cm²		
		INCRUSTATION					NO		
	_	SUSPENDED SOLIDS (%)				NO			
	47	MAXIMUM LOSS OF LOAD	ALLOWED		-	bar			
ight floor	48								
		MANUFACTURER			TESTO OR SIMILAR				
ŀ		MODEL							









TITLE

TRANSMITTERS

SHEET: 15 de 56 REV.:

` ` `								2		
	1	INSTRUMENT TAG NUMBE	R			PDIT-A	2038-001-1	<u>.</u>		
	2	SERVIÇE			DI	FFERENTIAL PRE	SSURE - ROOM A2	038		
	3	P&ID				7A-1	I-0-7-03			
AL	4	PIPE LINE	EQUIPMENT NUN	MBER	-	-	-			
GENERAL	5	EQUIPMENT MATERIAL / P.	IPE		FRONT I	PLATE STAINLES:	S STEEL, HOUSING	PLASTIC		
GEſ	6	AREA CLASSIFICATION				NOT CL	LASSIFIED			
	7	ENCLOSURE CLASSIFICAT	TON			II.	P-65			
	8	CERTIFICATES				(SEE GENE	ERAL NOTES 6)			
	9									
	9	DIAMETER OF SENSOR FR	ONT / CONENECTION	BACK	12mm / 6mm					
	10	TUBE MATERIAL			STAINLESS STEEL					
	11	COATING MATERIAL			MANUFACTURING STANDARD					
۵	12	ELECTRODE MATERIAL				3	16SS			
METER	13	GROUNDING RING MATER	IAL			YES (SEE GEI	NERAL NOTES 7))		
ME	14	CONNECTIONS				SUITAB	BLE HOSES			
	15	LOCAL TEMPERATURE				2	22°C			
	16	FLANGE FACE FINISH					-			
	17	ELECTRICAL CONNECTION	V			BACKPACK IN PO	STS IDENTIFICATE	:S		
	18	MOUNTING				ON T	HE WALL			
	19	POWER SUPPLY				24 Vcc	- 2 WIRE			
R	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
TTE	21	COMMUNICATION PROTOC	COL				-			
SMI	22	PRECISION				± 0.3	3% F.E.			
/TRANSMITTER	23	REPEATABILITY				MANUFACTU	RING STANDARD			
111	24	ELECTRICAL CONNECTION	V			MANUFACTU	RING STANDARD			
rer	25	LOCAL INDICATION				YES, LO	CD FRONT			
CONVERTER	26	RANGE OF PRESSURE				0 to	100Pa			
νo	27	CALIBRATED RANGE PRES	SSURE			37	7,5Pa			
Ö	28	KEYBOARD FOR LOCAL CO	ONFIGURATION			•	YES			
	_	METER CASING					-			
		PULSE OUTPUT			-					
ES		TAGGING			YES (SEE GENERAL NOTES 3)					
ACCESSORIES		SURGE PROTECTOR					YES			
ESS		DISPLAY			3 LINE LO	CD WITH MULTI L	INGUAGE OPERAT	ING MENU		
CC	34									
\vdash^{\forall}	35	51.1115	DUNGS AT 22			·				
		FLUID	PHYSICAL STATUS	1.4.2/4.4/4.4	A	IR	GA.	S ⁻		
		MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
ις		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-		
0/ VO	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-		
TIQI:	40	PROJECT FLOW DESIGN PRESSURE	DESIGN TEMPER	ATUDE	+	Pa		<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>		
OPERATING CONDITIONS	41	DENSITY @ OPERATING C		ATURE			kg/m³	-0		
ŊĠ	42						кg/m² Ср			
ATI.	43	FLUID CONDUCTIVITY	CONDITION				S/cm²			
PER		INCRUSTATION					NO			
Ô					+		NO			
		MAXIMUM LOSS OF LOAD	ALLOWED		_	bar				
	48	I CONDIN EGOD OF EGAD I	- vai							
	49	MANUFACTURER	TESTO OR SIMILAR							
		MODEL			I ESTO OR SIMILAR					
ш	50	I								









TESTO OR SIMILAR

PRD-AIC-DSH-001 569-DB7A-AIC-700-002 NUMBER: CLIENT NR:

TITI F

TRANSMITTERS

SHFFT: 16 de 56

2 INSTRUMENT TAG NUMBER PDIT-A2034-001-1 SERVIÇE DIFFERENTIAL PRESSURE - ROOM A2034 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR FRONT / CONENECTION BACK 12mm / 6mm TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 14 CONNECTIONS SUITABLE HOSES 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 MANUFACTURING STANDARD 24 **ELECTRICAL CONNECTION** 25 LOCAL INDICATION YES, LCD FRONT RANGE OF PRESSURE 26 0 to 100Pa CALIBRATED RANGE PRESSURE 37.5Pa 27 KEYBOARD FOR LOCAL CONFIGURATION YES METER CASING 29 **PULSE OUTPUT** 30 **TAGGING** YES (SEE GENERAL NOTES 3) 31 ACCESSORIES SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW DESIGN TEMPERATURE °C DESIGN PRESSURE Pa 41 DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO NO SUSPENDED SOLIDS (%) 46 47 MAXIMUM LOSS OF LOAD ALLOWED

NOTES:

48

MANUFACTURER

MODEL









PRD-AIC-DSH-001 569-DB7A-AIC-700-002 CLIENT NR: NUMBER:

TITLE

TRANSMITTERS

SHEET: 17 de 56 REV.:

`								2		
	1	INSTRUMENT TAG NUMBE	R			PDIT-A	12034-001-2			
	2	SERVIÇE			DI	IFFERENTIAL PR	ESSURE - ROOM A2	034		
	3	P&ID				7A	-1-0-7-03			
ΑL	4	PIPE LINE	EQUIPMENT NUM	1BER		-	-			
GENERAL	5	EQUIPMENT MATERIAL / P.	IPE		FRONT	PLATE STAINLES	SS STEEL, HOUSING	PLASTIC		
3EN	6	AREA CLASSIFICATION				NOT	CLASSIFIED			
ľ	7	ENCLOSURE CLASSIFICAT	TON				IP-65			
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)			
	9					•				
	9	DIAMETER OF SENSOR FR	ONT / CONENECTION	BACK	12mm / 6mm					
	10	TUBE MATERIAL				STAINL	ESS STEEL			
	11	COATING MATERIAL				MANUFACTU	IRING STANDARD			
~	12	ELECTRODE MATERIAL				3	316SS			
METER			IAL			YES (SEE GE	NERAL NOTES 7			
ME	14	CONNECTIONS				•	BLE HOSES			
	15	LOCAL TEMPERATURE					22°C			
	16	FLANGE FACE FINISH					-			
	17	ELECTRICAL CONNECTION	V			BACKPACK IN P	OSTS IDENTIFICATE	S		
	18	MOUNTING				ON 7	THE WALL			
	19	POWER SUPPLY				24 Vc	c - 2 WIRE			
œ	20	OUTPUT SIGNAL			4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)					
ΙE	21	COMMUNICATION PROTOC	COL				-			
SMI	22	PRECISION				± 0	.3% F.E.			
ANS	23	REPEATABILITY				MANUFACTU	IRING STANDARD			
/TR	24	ELECTRICAL CONNECTION	V			MANUFACTU	IRING STANDARD			
CONVERTER / TRANSMITTER	25	LOCAL INDICATION				YES, L	.CD FRONT			
ERT	26	RANGE OF PRESSURE				0 t	o 100Pa			
NV	27	CALIBRATED RANGE PRES	SSURE			3	37,5Pa			
ၓ	28	KEYBOARD FOR LOCAL CO	ONFIGURATION				YES			
	29	METER CASING					-			
	30	PULSE OUTPUT			-					
S	31	TAGGING			YES (SEE GENERAL NOTES 3)					
RIE	32	SURGE PROTECTOR					YES			
SSC	33	DISPLAY			3 LINE L	CD WITH MULTI I	LINGUAGE OPERAT	ING MENU		
ACCESSORIES	34									
Ä	35									
	36	FLUID	PHYSICAL STATUS		A	IR	GA	S		
		MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
ر _م ا	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-		
ON	39		NORMAL	MAXIMUM	-	-	-	-		
ITIO	40	PROJECT FLOW	1		1					
λοί.	41	DESIGN PRESSURE	DESIGN TEMPER	ATURE		Pa		<u>°C</u>		
9	42	DENSITY @ OPERATING C					kg/m³			
471/	43	VISCOSITY @ OPERATING	CONDITION				Ср			
OPERATING CONDITIONS					-	ļ	JS/cm²			
0.	45	INCRUSTATION			1		NO			
	46	SUSPENDED SOLIDS (%)	NO							
	47	MAXIMUM LOSS OF LOAD	- bar							
\vdash	48	MANUEACTURER	TESTO OD SIMILAD							
	49	MANUFACTURER			TESTO OR SIMILAR					
Ш	50	MODEL								









TITLE

TRANSMITTERS

SHEET: 18 de 56 REV.:

								2
	1	INSTRUMENT TAG NUMBE	R			PDIT	Γ-A2040-001	
	2	SERVIÇE			DI	IFFERENTIAL PH	RESSURE - ROOM A20	040
	3	P&ID				7/	4-1-0-7-03	
ΑΓ	4	PIPE LINE	EQUIPMENT NUI	MBER		-	-	
GENERAL	5	EQUIPMENT MATERIAL / P	IPE .		FRONT	PLATE STAINLE	SS STEEL, HOUSING	PLASTIC
GEI	6	AREA CLASSIFICATION				NOT	CLASSIFIED	
	7	ENCLOSURE CLASSIFICAT	TION				IP-65	
	8	CERTIFICATES				(SEE GEN	NERAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR FR	RONT / CONENECTION	I BACK		12	mm / 6mm	
	10	TUBE MATERIAL				STAIN	ILESS STEEL	
	11	COATING MATERIAL				MANUFACT	URING STANDARD	
æ	12	ELECTRODE MATERIAL					316SS	
METER	13	GROUNDING RING MATER	IAL			YES (SEE G	ENERAL NOTES 7)	
M	14	CONNECTIONS				SUITA	ABLE HOSES	
	15	LOCAL TEMPERATURE					22°C	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTION	V			BACKPACK IN F	POSTS IDENTIFICATE	S
	18	MOUNTING				ON	THE WALL	
		POWER SUPPLY				24 V	cc - 2 WIRE	
K.	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIF	RE (500 ohms @ 24 Vc	c)
H		COMMUNICATION PROTO	COL					
ISM		PRECISION		#	0.3% F.E.			
/TRANSMITTER	23	REPEATABILITY		MANUFACT	URING STANDARD			
1/1	24	ELECTRICAL CONNECTION		MANUFACT	URING STANDARD			
TEF		LOCAL INDICATION		YES,	LCD FRONT			
CONVERTER	26	RANGE OF PRESSURE		0	to 100Pa			
NO	27	CALIBRATED RANGE PRES	·					
0	_	KEYBOARD FOR LOCAL C	ONFIGURATION	YES				
	_	METER CASING					-	
	30	PULSE OUTPUT					-	
S	31					YES (SEE G	ENERAL NOTES 3)	
ACCESSORIES		SURGE PROTECTOR					YES	
ESS		DISPLAY			3 LINE L	CD WITH MULTI	LINGUAGE OPERATI	NG MENU
CC	34							
1	35	51.110	DUNGIONI OTATUO		1	10	1 046	
		FLUID	PHYSICAL STATUS	1447/14/14		IR T	GAS	5
	_	MINIMUM FLOW	NORMAL	MAXIMUM	-	+ -	-	-
S	_	MINIMUM PRESSURE	NORMAL	MAXIMUM MAXIMUM	-	-	-	-
707	_	MINIMUM TEMPERATURE PROJECT FLOW	NORMAL	IVIAAIIVIUIVI	<u> </u>			-
CONDITIONS	40	DESIGN PRESSURE	DESIGN TEMPER	RATI IRE		 Pa		rc
CO		DENSITY @ OPERATING C		MIUNL		га	kg/m³	<u> </u>
NG	42 43				-		Ср	
OPERATING	_		CONDITION		1		μS/cm²	
PEF	_	INCRUSTATION			+		NO	
0	_	SUSPENDED SOLIDS (%)					NO	
	_	MAXIMUM LOSS OF LOAD	ALLOWED		-	bar		
	48	MAXIMUM LOSS OF LOAD ALLOWED			1	- Dai		
\vdash	-	MANUFACTURER	TESTO OR SIMILAR					
	_	MODEL			 	.2070		
$ldsymbol{ldsymbol{eta}}$	50	I						









TITI F

TRANSMITTERS

SHFFT: 19 de 56

INSTRUMENT TAG NUMBER PDIT-A2041-001 SERVIÇE DIFFERENTIAL PRESSURE - ROOM A2041 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR FRONT / CONENECTION BACK 12mm / 6mm TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 14 CONNECTIONS SUITABLE HOSES 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 24 **ELECTRICAL CONNECTION** MANUFACTURING STANDARD 25 LOCAL INDICATION YES, LCD FRONT RANGE OF PRESSURE 26 0 to 100Pa CALIBRATED RANGE PRESSURE 37.5Pa 27 KEYBOARD FOR LOCAL CONFIGURATION YES METER CASING 29 **PULSE OUTPUT** 30 **TAGGING** YES (SEE GENERAL NOTES 3) 31 **ACCESSORIES** SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW DESIGN TEMPERATURE °C DESIGN PRESSURE Pa 41 DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO NO SUSPENDED SOLIDS (%) 46 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









PRD-AIC-DSH-001 569-DB7A-AIC-700-002 CLIENT NR: NUMBER:

TITLE

TRANSMITTERS

SHEET: 20 de 56 REV.:

'' `	.~\! Y	SWITTERS						2		
	1	INSTRUMENT TAG NUMB	ER			MIT / TI	T-2006-01			
	2	SERVIÇE			HUN	MIDITY AND TEMP	ERATURE ROOM	A2006		
	3	P&ID				7A-I-	-0-7-03			
4L	4	PIPE LINE	EQUIPMEN [*]	T NUMBER	-		=			
ER,		EQUIPMENT MATERIAL /	PIPE		FRONT F	PLATE STAINLESS	S STEEL, HOUSING	S PLASTIC		
GENERAL	6	AREA CLASSIFICATION				NOT CL	ASSIFIED			
		ENCLOSURE CLASSIFICA	ATION		1	IF	P-65			
	8	CERTIFICATES				(SEE GENE	RAL NOTES 6)			
	9						,			
	9	DIAMETER OF SENSOR			12mm					
	10	TUBE MATERIAL			STAINLESS STEEL					
	11	COATING MATERIAL				MANUFACTUR	RING STANDARD			
~	12	ELECTRODE MATERIAL				31	6SS			
METER	13	GROUNDING RING MATE	RIAL			YES (SEE GEN	IERAL NOTES 7)		
ME	14	CONNECTIONS			PRO		UFATURING STAN			
	_	LOCAL TEMPERATURE				2	2°C			
	16	FLANGE FACE FINISH					-			
	17	ELECTRICAL CONNECTION	ON			BACKPACK IN PO	STS IDENTIFICATE	ES		
	18	MOUNTING				ON TH	IE WALL			
	19	POWER SUPPLY				24 Vcc	- 2 WIRE			
œ	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
TE	21	COMMUNICATION PROTO	DCOL			-				
SMIT	22	PRECISION		± 0.3	% F.E.					
ANS	23	REPEATABILITY		MANUFACTUR	RING STANDARD					
/TR	24	ELECTRICAL CONNECTION		MANUFACTUR	ING STANDARD					
CONVERTER / TRANSMITTER	25	LOCAL INDICATION				YES, LC	D FRONT			
ERT	26	RANGE TEMPERATURE				-20 t	o 70°C			
NV	27	CALIBRATED RANGE TEN	<i>IPERATURE</i>			2	2°C			
ၓ	28	KEYBOARD FOR LOCAL (CONFIGURATION		YES					
	29	METER CASING			- -					
	30	PULSE OUTPUT								
S	31	TAGGING				YES (SEE GEN	IERAL NOTES 3)			
CCESSORIES	32	SURGE PROTECTOR				γ	ÆS .			
SSC	33	DISPLAY			3 LINE LO	CD WITH MULTI LI	NGUAGE OPERAT	ING MENU		
CE	34	SENSOR CABLE LENGTH	1			10 M	ETERS			
Ä	35									
	36	FLUID	PHYSICAL STAT	US	Al	R	GA	S		
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
رم ا	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-		
OPERATING CONDITIONS	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-		
ITIG	40	PROJECT FLOW				· · · · · · · · · · · · · · · · · · ·				
NO:	41	DESIGN PRESSURE		MPERATURE		bar-g		℃		
) D	42	DENSITY @ OPERATING					g/m³			
4.71V	43	VISCOSITY @ OPERATIN	G CONDITION				Cp .			
ER,	44	FLUID CONDUCTIVITY					S/cm²			
0.	45	INCRUSTATION					VO			
	46	SUSPENDED SOLIDS (%)					VO			
	47	MAXIMUM LOSS OF LOAD	ALLOWED		1		-			
	48	MANUEACTURES			TEGET OF CHAIN AS					
		MANUFACTURER				158100	R SIMILAR			
L NO7	50	MODEL								









TITLE

TRANSMITTERS

SHEET: 21 de 56 REV.:

								2		
	1	INSTRUMENT TAG NUMBE	R			PDIT / Mi	T / TIT-2012-001			
	2	SERVIÇE				TEMPERAT	URE ROOM A2012			
	3	P&ID				7/	A- <i>I-0-7-0</i> 3			
ΑΓ	4	PIPE LINE	EQUIPMENT NUI	MBER	-		-			
GENERAL	5	EQUIPMENT MATERIAL / P.	IPE		FRONT F	PLATE STAINLE	SS STEEL, HOUSING I	PLASTIC		
GEN	6	AREA CLASSIFICATION				NOT	CLASSIFIED			
-	7	ENCLOSURE CLASSIFICAT	TION				IP-65			
	8	CERTIFICATES				(SEE GEN	IERAL NOTES 6)			
	9									
	9	DIAMETER OF SENSOR				12mm				
	10	TUBE MATERIAL				STAINLESS STEEL				
	11	COATING MATERIAL				MANUFACT	URING STANDARD			
٣	12	ELECTRODE MATERIAL					316SS			
METER	13	GROUNDING RING MATER	MAL			YES (SEE G	ENERAL NOTES 7)			
ME	14	CONNECTIONS			PRO		ANUFATURING STAND	ARD		
	15	LOCAL TEMPERATURE					22°C			
	16	FLANGE FACE FINISH					-			
	17	ELECTRICAL CONNECTION	V			BACKPACK IN F	POSTS IDENTIFICATES	3		
	18	DIAMETER OF SENSOR FR	RONT / CONENECTION	I BACK		12	?mm/6mm			
	19	POWER SUPPLY				24 V	cc - 2 WIRE			
۵	20	OUTPUT SIGNAL			4	1 - 20 mA - 2 WIF	RE (500 ohms @ 24 Vcc	:)		
ΉE	21	COMMUNICATION PROTO	COL				-			
SMI	22	PRECISION		±	0.3% F.E.					
ANS	23	REPEATABILITY		MANUFACT	URING STANDARD					
CONVERTER / TRANSMITTER	24	ELECTRICAL CONNECTION		MANUFACT	URING STANDARD					
ER.	25	LOCAL INDICATION		YES,	LCD FRONT					
ERT	26	RANGE TEMPERATURE		-2	0 to 70℃					
NN	27	CALIBRATED RANGE TEMP	PERATURE				22℃			
\mathcal{S}	28	KEYBOARD FOR LOCAL CO	ONFIGURATION				YES			
	29	METER CASING					-			
	30	PULSE OUTPUT					-			
S	31	TAGGING				YES (SEE G	ENERAL NOTES 3)			
ACCESSORIES	32	SURGE PROTECTOR					YES			
SSC	33	DISPLAY			3 LINE LO	CD WITH MULTI	LINGUAGE OPERATIN	IG MENU		
CE	34	SENSOR CABLE LENGTH				10	METERS			
ЭΥ	35									
	36	FLUID	PHYSICAL STATUS		Al	R	GAS			
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-		
SNC	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-		
)/T/C	40	PROJECT FLOW								
ONE	41	DESIGN PRESSURE	DESIGN TEMPER	RATURE		bar-g	બ્(
Ö	42	DENSITY @ OPERATING C	CONDITION				kg/m³			
OPERATING CONDITIONS	43	VISCOSITY @ OPERATING	CONDITION				Ср			
ERA	44	FLUID CONDUCTIVITY					μS/cm²			
OPI	45						NO			
	46	SUSPENDED SOLIDS (%)					NO			
	47	MAXIMUM LOSS OF LOAD			-					
	48									
	49	MANUFACTURER				TESTO	OR SIMILAR			
	50	MODEL								









TITLE

TRANSMITTERS

SHEET: 22 de 56 REV.:

								2
	1	INSTRUMENT TAG NUMBE	R			MIT/1	TIT-2014-001	
	2	SERVIÇE			HUN	IIDITY AND TEM	PERATURE ROOM A	2014
	3	P&ID				7A	-I-0-7-03	
AL	4	PIPE LINE	EQUIPMENT NUM	MBER	-		-	
GENERAL	5	EQUIPMENT MATERIAL / P	IPE .		FRONT F	PLATE STAINLES	SS STEEL, HOUSING	PLASTIC
GEI	6	AREA CLASSIFICATION				NOT	CLASSIFIED	
	7	ENCLOSURE CLASSIFICAT	TION				IP-65	
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR					12mm	
	10	TUBE MATERIAL				STAINI	LESS STEEL	
	11	COATING MATERIAL				MANUFACTU	JRING STANDARD	
В	12	ELECTRODE MATERIAL				;	316SS	
METER	13	GROUNDING RING MATER	ROUNDING RING MATERIAL			YES (SEE GE	NERAL NOTES 7)	
M	14	CONNECTIONS	PRO	BE SOCKET MA	NUFATURING STANE	DARD		
	15	LOCAL TEMPERATURE					22℃	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTION	V		E	BACKPACK IN P	OSTS IDENTIFICATES	S
	18	MOUNTING				ON	THE WALL	
	19	POWER SUPPLY				24 Vo	cc - 2 WIRE	
æ	20	OUTPUT SIGNAL			4	! - 20 mA - 2 WIR	E (500 ohms @ 24 Vc	c)
TTE	21	COMMUNICATION PROTO	COL			-		
ISM		PRECISION		± 0).3% F.E.			
/TRANSMITTER	23	REPEATABILITY		MANUFACTU	JRING STANDARD			
7 / T	24	ELECTRICAL CONNECTION		MANUFACTU	JRING STANDARD			
TEF		LOCAL INDICATION		YES, I	LCD FRONT			
CONVERTER	26	RANGE TEMPERATURE		-20) to 70°C			
NO	27	CALIBRATED RANGE TEMI	ANGE TEMPERATURE				22℃	
0	_	KEYBOARD FOR LOCAL C	ONFIGURATION				YES	
		METER CASING					-	
	30	PULSE OUTPUT					-	
ES	31					YES (SEE GI	ENERAL NOTES 3)	
ACCESSORIES		SURGE PROTECTOR					YES	
ESS		DISPLAY			3 LINE LO		LINGUAGE OPERATII	NG MENU
CC		SENSOR CABLE LENGTH				10	METERS	
1	35	E1.110	DUNGIONI OTATUO				0.40	
		FLUID	PHYSICAL STATUS	144×1441.14	Al.	κ	GAS	•
		MINIMUM FLOW MINIMUM PRESSURE	NORMAL	MAXIMUM		 	-	-
S/		MINIMUM PRESSURE MINIMUM TEMPERATURE	NORMAL NORMAL	MAXIMUM MAXIMUM	-	-	-	-
707		PROJECT FLOW	NONWAL	IVIAAIIVIOIVI	-	1 -	<u> </u>	<u>-</u>
ΠQN	40 41	DESIGN PRESSURE	DESIGN TEMPER	PATIIRE	+	bar-g	0	
CONDITIONS	41	DENSITY @ OPERATING C		J. TOIL	+	bui 'y	kg/m³	
Ŋ	43	VISCOSITY @ OPERATING			1		Ср	
OPERATING		FLUID CONDUCTIVITY			 		uS/cm²	
PEF		INCRUSTATION			1		NO	
0		SUSPENDED SOLIDS (%)			+		NO	
	_	MAXIMUM LOSS OF LOAD	ALLOWED		<u> </u>		-	
	48		1					
H		MANUFACTURER			†	TESTO	OR SIMILAR	
	_	MODEL			1			
					1			









TITI F

TRANSMITTERS

SHFFT: 23 de 56

2 INSTRUMENT TAG NUMBER PDIT - 2005-001-1 SERVIÇE DIFERENTIAL PRESSURE ROOM A2005 2 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR TEMP DIAMETER PRESSURE SENSOR 9 TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 PROBE SOCKET MANUFATURING STANDARD 14 CONNECTIONS 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 24 **ELECTRICAL CONNECTION** MANUFACTURING STANDARD 25 LOCAL INDICATION YES, LCD FRONT RANGE TEMPERATURE 26 -20 to 70°C CALIBRATED RANGE TEMPERATURE 22°C 27 KEYBOARD FOR LOCAL CONFIGURATION YES RANGE OF PRESSURE 0 to 100pA 29 RANGE OF CALIBRATED PRESSURE 12.5Pa 31 TAGGING YES (SEE GENERAL NOTES 3) **ACCESSORIES** SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY SENSOR CABLE LENGTH TEMPERATURE 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW °C DESIGN PRESSURE DESIGN TEMPERATURE 41 bar-g DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO SUSPENDED SOLIDS (%) NO 46 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









TITI F

TRANSMITTERS

SHFFT: 24 de 56

2 INSTRUMENT TAG NUMBER PDIT - 2005-001-2 SERVIÇE DIFERENTIAL PRESSURE ROOM A2005 2 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR TEMP DIAMETER PRESSURE SENSOR 9 TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 PROBE SOCKET MANUFATURING STANDARD 14 CONNECTIONS 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 24 **ELECTRICAL CONNECTION** MANUFACTURING STANDARD 25 LOCAL INDICATION YES, LCD FRONT RANGE TEMPERATURE 26 -20 to 70°C CALIBRATED RANGE TEMPERATURE 22°C 27 KEYBOARD FOR LOCAL CONFIGURATION YES RANGE OF PRESSURE 0 to 100pA 29 RANGE OF CALIBRATED PRESSURE 12.5Pa 31 TAGGING YES (SEE GENERAL NOTES 3) **ACCESSORIES** SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY SENSOR CABLE LENGTH TEMPERATURE 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW °C DESIGN PRESSURE DESIGN TEMPERATURE 41 bar-g DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO SUSPENDED SOLIDS (%) NO 46 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









TITLE

TRANSMITTERS

SHEET: 25 de 56 REV.:

								2	
	1	INSTRUMENT TAG NUMBE	R			MIT / PDIT	T / TIT-2023-001		
ı	2	SERVIÇE			DIF PRES	S, HUMIDITY ANI	D TEMPERATURE RC	OM A2023	
ı	3	P&ID				7A	-1-0-7-03		
AL.	4	PIPE LINE	EQUIPMENT NUI	MBER	-	-	=		
GENERAL	5	EQUIPMENT MATERIAL / P	IPE .		FRONT I	PLATE STAINLES	SS STEEL, HOUSING	PLASTIC	
Į Č	6	AREA CLASSIFICATION				NOT	CLASSIFIED		
ı	7	ENCLOSURE CLASSIFICAT	TION				IP-65		
ı	8	CERTIFICATES				(SEE GEN	ERAL NOTES 6)		
ı	9								
	9	DIAMETER OF SENSOR TE	MP DIAMETER PRE	ESSURE SENSOR	12mm 12mm/6mm				
ı	10	TUBE MATERIAL	•			STAINL	ESS STEEL		
Ì	11	COATING MATERIAL				MANUFACTL	IRING STANDARD		
.	12	ELECTRODE MATERIAL					316SS		
	13	GROUNDING RING MATER	IAL			YES (SEE GE	NERAL NOTES 7)		
	14	CONNECTIONS			PRO	BE SOCKET MA	MANUFATURING STANDARD		
ı	15	LOCAL TEMPERATURE					22℃		
ı	16	FLANGE FACE FINISH					-		
ı	17	ELECTRICAL CONNECTION	V			BACKPACK IN P	OSTS IDENTIFICATES	S	
1	18	MOUNTING				ON 7	THE WALL		
ı	19	POWER SUPPLY				24 Vc	c - 2 WIRE		
.	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIR	E (500 ohms @ 24 Vcc	 c)	
	21	COMMUNICATION PROTO			-				
	22	PRECISION		± 0	.3% F.E.				
		REPEATABILITY		MANUFACTU	IRING STANDARD				
		ELECTRICAL CONNECTION		MANUFACTU	IRING STANDARD				
		LOCAL INDICATION		YES, L	.CD FRONT				
		RANGE TEMPERATURE) to 70°C				
		CALIBRATED RANGE TEMI			22℃				
		KEYBOARD FOR LOCAL C	ONFIGURATION				YES		
ŀ	_	RANGE OF PRESSURE		0 to 100pA		o 100pA			
ı		RANGE OF CALIBRATED P	RESSURE				 25Pa		
7	31	TAGGING				YES (SEE GE	ENERAL NOTES 3)		
<u> </u>	_	SURGE PROTECTOR					YES		
		DISPLAY			3 LINE LO	CD WITH MULTI I	LINGUAGE OPERATII	NG MENU	
		SENSOR CABLE LENGTH	TEMPERATURE			10 /	METERS		
?	35								
1	36	FLUID	PHYSICAL STATUS		Ai	IR	GAS	;	
ŀ	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-	
ŀ	_	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-	
	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-	
		PROJECT FLOW		•		1			
		DESIGN PRESSURE	DESIGN TEMPER	RATURE		bar-g	0(С	
	42	DENSITY @ OPERATING C	ONDITION			-	kg/m³		
2	43	VISCOSITY @ OPERATING	CONDITION				Ср		
	_	FLUID CONDUCTIVITY				4	JS/cm²		
	45	INCRUSTATION				<u> </u>	NO		
'		SUSPENDED SOLIDS (%)					NO		
ı	47	MAXIMUM LOSS OF LOAD	ALLOWED				-		
ŀ	48								
┪		MANUFACTURER				TESTO	OR SIMILAR		
- 1	_	MODEL							









PRD-AIC-DSH-001 569-DB7A-AIC-700-002 CLIENT NR: NUMBER:

TITLE

TRANSMITTERS

SHEET: 26 de 56 REV.:

								2
	1	INSTRUMENT TAG NUMBE	R			PDIT / N	/IT / TIT-2025-001	
	2	SERVIÇE			DIF PRES	S, HUMIDITY A	ND TEMPERATURE F	ROOM A2025
	3	P&ID				7	7A-I-0-7-03	
ΑL	4	PIPE LINE	EQUIPMENT NUN	1BER		-	-	-
IER.	5	EQUIPMENT MATERIAL / P	IPE		FRONT	PLATE STAINL	ESS STEEL, HOUSING	G PLASTIC
GENERAL	6	AREA CLASSIFICATION				NOT	CLASSIFIED	
	7	ENCLOSURE CLASSIFICAT	TON				IP-65	
	8	CERTIFICATES				(SEE GE	NERAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR					12mm	
	10	TUBE MATERIAL				STAI	NLESS STEEL	
	11	COATING MATERIAL				MANUFAC	TURING STANDARD	
~	12	ELECTRODE MATERIAL					316SS	
METER	13	GROUNDING RING MATER	IAL			YES (SEE G	GENERAL NOTES 7	7)
ME	14	CONNECTIONS			PRO	DBE SOCKET N	IANUFATURING STAN	NDARD
	15	LOCAL TEMPERATURE					22°C	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTION	V			BACKPACK IN	POSTS IDENTIFICAT	ES
	18	MOUNTING				01	I THE WALL	
	19	POWER SUPPLY				24	Vcc - 2 WIRE	
۵	20	OUTPUT SIGNAL		4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
TE	21	COMMUNICATION PROTOC			-			
SMI	22	PRECISION			- 0.3% F.E.			
AN	23	REPEATABILITY		MANUFAC	TURING STANDARD			
CONVERTER / TRANSMITTER	24	ELECTRICAL CONNECTION		MANUFAC	TURING STANDARD			
ER.	25	LOCAL INDICATION		YES	, LCD FRONT			
ERI	26	RANGE TEMPERATURE		-	20 to 70°C			
NV	27	CALIBRATED RANGE TEMP				22℃		
S	28	KEYBOARD FOR LOCAL CO	ONFIGURATION				YES	
	29	METER CASING					-	
	30	PULSE OUTPUT					-	
S	31	TAGGING				YES (SEE	GENERAL NOTES 3)	
ACCESSORIES	32	SURGE PROTECTOR					YES	
SS	33	DISPLAY			3 LINE L	CD WITH MULT	TI LINGUAGE OPERAT	TING MENU
CE	34	SENSOR CABLE LENGTH				1	0 METERS	
Ä	35							
	36	FLUID	PHYSICAL STATUS		A	IR	G.A	AS
	_	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-
(A)	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-
NO.	39		NORMAL	MAXIMUM	-	-	-	-
ITIO	40	PROJECT FLOW	1		ļ			
NO	41	DESIGN PRESSURE	DESIGN TEMPER	ATURE	ļ	bar-g	1	℃
2 9/	42	DENSITY @ OPERATING C			<u> </u>		kg/m³	
OPERATING CONDITIONS	43	VISCOSITY @ OPERATING	CONDITION		 		Cp	
ΈR	_						μS/cm²	
06	45	INCRUSTATION					NO	
	46	SUSPENDED SOLIDS (%)	ALL OWED				NO	
	47	MAXIMUM LOSS OF LOAD	ALLOWED		1		-	
\vdash	48	MANUFACTURER			 	TEOT	O OR SIMILAR	
	49				1	1531	O OR SIIVIILAR	
	50	MODEL						









TITI F

TRANSMITTERS

SHFFT: 27 de 56 REV.:

2 INSTRUMENT TAG NUMBER PDIT-2035-001-1 SERVIÇE DIFERENTIAL PRESSURE ROOM A2035 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR TEMP DIAMETER PRESSURE SENSOR 9 TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 PROBE SOCKET MANUFATURING STANDARD 14 CONNECTIONS 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 POWER SUPPLY 24 Vcc - 2 WIRE 19 **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 CONVERTER / TRANSMITTER COMMUNICATION PROTOCOL 21 22 PRECISION ± 0.3% F.E. REPEATABILITY MANUFACTURING STANDARD 23 24 **ELECTRICAL CONNECTION** MANUFACTURING STANDARD 25 LOCAL INDICATION YES, LCD FRONT RANGE TEMPERATURE 26 -20 to 70°C CALIBRATED RANGE TEMPERATURE 22°C 27 KEYBOARD FOR LOCAL CONFIGURATION YES RANGE OF PRESSURE 0 to 100pA 29 RANGE OF CALIBRATED PRESSURE 37.5Pa 31 TAGGING YES (SEE GENERAL NOTES 3) **ACCESSORIES** SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY SENSOR CABLE LENGTH TEMPERATURE 34 35 PHYSICAL STATUS 36 FLUID AIR GAS MINIMUM FLOW NORMAL MAXIMUM 37 MINIMUM PRESSURE NORMAL ΜΑΧΙΜΙΙΜ 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 40 PROJECT FLOW °C DESIGN PRESSURE DESIGN TEMPERATURE 41 bar-g DENSITY @ OPERATING CONDITION kg/m³ 43 VISCOSITY @ OPERATING CONDITION Ср 44 FLUID CONDUCTIVITY µS/cm² 45 INCRUSTATION NO SUSPENDED SOLIDS (%) NO 46 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









PRD-AIC-DSH-001 569-DB7A-AIC-700-002 CLIENT NR: NUMBER:

TITLE

TRANSMITTERS

SHEET: 28 de 56 REV.:

l		Omi i Lito						2
	1	INSTRUMENT TAG NUMBE	R			PDI	T-2035-001-2	
	2	SERVIÇE			E	DIFERENTIAL PI	RESSURE ROOM A20	035
	3	P&ID				7	A-I-0-7-03	
ΑF	4	PIPE LINE	EQUIPMENT NUN	MBER .		-	-	
GENERAL	5	EQUIPMENT MATERIAL / P.	IPE		FRONT	PLATE STAINLE	ESS STEEL, HOUSING	G PLASTIC
GEN	6	AREA CLASSIFICATION				NOT	CLASSIFIED	
ľ	7	ENCLOSURE CLASSIFICAT	TON				IP-65	
	8	CERTIFICATES				(SEE GE	NERAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR TE	MP DIAMETER PRE	SSURE SENSOR		-	12mm/	/6mm
	10	TUBE MATERIAL				STAII	VLESS STEEL	
	11	COATING MATERIAL			MANUFACTURING STANDARD			
~	12	ELECTRODE MATERIAL					316SS	
METER	13	GROUNDING RING MATER	IAL			YES (SEE G	ENERAL NOTES 7	")
ME	14	CONNECTIONS			PRO	DBE SOCKET M	ANUFATURING STAN	, IDARD
	15	LOCAL TEMPERATURE					22℃	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTION	V			BACKPACK IN	POSTS IDENTIFICATE	ES
П	18	MOUNTING				ON	THE WALL	
	19	POWER SUPPLY				24 \	/cc - 2 WIRE	
c	20	OUTPUT SIGNAL				4 - 20 mA - 2 WI	RE (500 ohms @ 24 V	(cc)
1E/	21	COMMUNICATION PROTOC	COL				=	
LIMS	22	PRECISION				±	0.3% F.E.	
ANS	23	REPEATABILITY		MANUFACT	TURING STANDARD			
/TR	24	ELECTRICAL CONNECTION		MANUFACT	TURING STANDARD			
CONVERTER / TRANSMITTER	25	LOCAL INDICATION				YES,	LCD FRONT	
≘R7	26	RANGE TEMPERATURE				-2	20 to 70°C	
N	27	CALIBRATED RANGE TEMP	PERATURE				22°C	
ၓ	28	KEYBOARD FOR LOCAL CO	ONFIGURATION				YES	
	29	RANGE OF PRESSURE				C	to 100pA	
	30	RANGE OF CALIBRATED P	RESSURE				37,5Pa	
S	31	TAGGING				YES (SEE C	GENERAL NOTES 3)	
ACCESSORIES	32	SURGE PROTECTOR					YES	
SSC	33	DISPLAY			3 LINE L	CD WITH MULT	I LINGUAGE OPERAT	ING MENU
CE	34	SENSOR CABLE LENGTH 1	TEMPERATURE				-	
AC	35							
	36	FLUID	PHYSICAL STATUS		A	IR	GA	S
	37	MINIMUM FLOW	NORMAL	MAXIMUM		-	-	
	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	
SNC	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-
 	40	PROJECT FLOW						
JNC	41	DESIGN PRESSURE	DESIGN TEMPER	RATURE		bar-g		°C
ပို	42	DENSITY @ OPERATING C	ONDITION				kg/m³	
ΝL	43	VISCOSITY @ OPERATING	CONDITION				Ср	
OPERATING CONDITIONS	44	FLUID CONDUCTIVITY					μS/cm²	
0Pt	45	INCRUSTATION					NO	
	46	SUSPENDED SOLIDS (%)					NO	
	47	MAXIMUM LOSS OF LOAD	ALLOWED				-	
Ш	48							
	49	MANUFACTURER				TEST	O OR SIMILAR	
	50	MODEL						
							· · · · · · · · · · · · · · · · · · ·	









PRD-AIC-DSH-001 569-DB7A-AIC-700-002 CLIENT NR: NUMBER:

TITLE

TRANSMITTERS

SHEET: 29 de 56 REV.:

KA	NSWITTERS								2	
1	1 INSTRUMENT TA	G NUMBEI	R				PDIT-	A2039-001-1		
2	2 SERVIÇE					DIF	ERENTIAL PR	RESSURE ROOM A2	039	
3	3 P&ID						7/-	N-I-0-7-03		
4	4 PIPE LINE		EQUIPMEI	NT NUMBER		=				
<u> </u>	5 EQUIPMENT MAT	TERIAL / PI	 'PE			FRONT PL	ATE STAINLE	SS STEEL, HOUSIN	G PLASTIC	
	AREA CLASSIFIC	ATION					NOT	CLASSIFIED		
\vdash	7 ENCLOSURE CLA		ION					IP-65		
- 8	<u> </u>						(SEE GEN	IERAL NOTES 6)		
							,	,		
+	DIAMETER OF S	ENSOR TE	MP DIAMETE	ER PRESSURE	SENSOR	- 12mm/6mm				
1	0 TUBE MATERIAL						STAIN	LESS STEEL		
1	1 COATING MATER	RIAL					MANUFACT	URING STANDARD		
1.	2 ELECTRODE MA	TERIAL						316SS		
1.	3 GROUNDING RIN	IG MATERI	'AL			,	YES (SEE GI	ENERAL NOTES 7	7)	
1.	4 CONNECTIONS							NUFATURING STAI		
1.	5 LOCAL TEMPERA	ATURE						22°C		
1	6 FLANGE FACE FI	NISH						-		
1	7 ELECTRICAL CO.	ELECTRICAL CONNECTION					ACKPACK IN F	POSTS IDENTIFICAT	ES	
1.	8 MOUNTING						ON	THE WALL		
1.	9 POWER SUPPLY	,					24 V	cc - 2 WIRE		
2	0 OUTPUT SIGNAL					4 -	20 mA - 2 WIF	RE (500 ohms @ 24 \	/cc)	
2	1 COMMUNICATIO	COMMUNICATION PROTOCOL						<u> </u>		
2	2 PRECISION						± (0.3% F.E.		
	3 REPEATABILITY						MANUFACT	URING STANDARD		
2		ELECTRICAL CONNECTION					MANUFACT	URING STANDARD		
2		LOCAL INDICATION					YES.	LCD FRONT		
		RANGE TEMPERATURE						0 to 70°C		
2	7 CALIBRATED RA	CALIBRATED RANGE TEMPERATURE						22°C		
2	8 KEYBOARD FOR			1				YES		
2	9 RANGE OF PRES	SURE					0	to 100pA		
3	0 RANGE OF CALIE	BRATED PI	RESSURE					37,5Pa		
3	1 TAGGING						YES (SEE G	ENERAL NOTES 3)		
3.	2 SURGE PROTEC	TOR					•	YES		
3	3 DISPLAY					3 LINE LCL	WITH MULTI	LINGUAGE OPERA	TING MENU	
3 3 3	4 SENSOR CABLE	LENGTH T	EMPERATURE					-		
	5									
3	6 FLUID		PHYSICAL STA	ATUS		AIR		G/	4S	
3	7 MINIMUM FLOW		NORMAL	MAXIN	ЛИМ	-	-	-	-	
3	8 MINIMUM PRESS	URE	NORMAL	MAXIN	ЛИМ	-	-	-	-	
3	9 MINIMUM TEMPE	RATURE	NORMAL	MAXIN	ЛИМ	-	-	-	-	
4	0 PROJECT FLOW			I					•	
4	1 DESIGN PRESSU	IRE	DESIGN T	EMPERATURE	:		bar-g		℃	
4.	2 DENSITY @ OPE	RATING C	ONDITION					kg/m³		
4	3 VISCOSITY @ OF	PERATING	CONDITION					Ср		
3 4 4 4 4 4 4	4 FLUID CONDUCT	TVITY						μS/cm²		
4	5 INCRUSTATION							NO		
	6 SUSPENDED SO	SUSPENDED SOLIDS (%)						NO		
4	7 MAXIMUM LOSS	MAXIMUM LOSS OF LOAD ALLOWED					-			
4	8									
4	9 MANUFACTURE	?					TESTO	OR SIMILAR		
5	O MODEL									









TITLE

TRANSMITTERS

SHEET: 30 de 56 REV.:

` ` `								2	
	1	INSTRUMENT TAG NUMBI	ER			PDIT-A	2039-001-2	•	
	2	SERVIÇE			D	IFERENTIAL PRE	ESSURE ROOM A20	139	
	3	P&ID				7A-	I-0-7-03		
ΑL	4	PIPE LINE	EQUIPMENT NU	IMBER	-		-		
IER.	5	EQUIPMENT MATERIAL / I	PIPE		FRONT F	PLATE STAINLES	S STEEL, HOUSING	S PLASTIC	
GENERAL	6	AREA CLASSIFICATION				NOT C	LASSIFIED		
	7	ENCLOSURE CLASSIFICA	TION			1	IP-65		
	8	CERTIFICATES				(SEE GENE	ERAL NOTES 6)		
	9								
	9	DIAMETER OF SENSOR T	EMP DIAMETER PR	ESSURE SENSOR	-		12mm/	6mm	
	10	TUBE MATERIAL			STAINLESS STEEL				
	11	COATING MATERIAL				MANUFACTU	RING STANDARD		
~	12	ELECTRODE MATERIAL				3	116SS		
METER	13	GROUNDING RING MATER	RIAL			YES (SEE GE	NERAL NOTES 7)	
ME	14	CONNECTIONS			PRO		NUFATURING STAN		
	15	LOCAL TEMPERATURE				-	22°C		
	16	FLANGE FACE FINISH					-		
	17	ELECTRICAL CONNECTIO	N		E	BACKPACK IN PO	OSTS IDENTIFICATE	ES .	
	18	MOUNTING				ON T	HE WALL		
	19	POWER SUPPLY				24 Vc	c - 2 WIRE		
œ	20	OUTPUT SIGNAL			4	- 20 mA - 2 WIRE	E (500 ohms @ 24 V	cc)	
TTE	21	COMMUNICATION PROTO	COL		-				
/TRANSMITTER	22	PRECISION				± 0.	3% F.E.		
ΆN	23	REPEATABILITY				MANUFACTU	RING STANDARD		
/ TF	24	ELECTRICAL CONNECTIO	N			MANUFACTU	RING STANDARD		
CONVERTER	25	LOCAL INDICATION				YES, L	CD FRONT		
ERI	26	RANGE TEMPERATURE				-20	to 70°C		
NV	27	CALIBRATED RANGE TEM	<i>IPERATURE</i>			:	22℃		
ၓ	28	KEYBOARD FOR LOCAL C	CONFIGURATION				YES		
	29	RANGE OF PRESSURE				0 to	100pA		
	30	RANGE OF CALIBRATED I	PRESSURE			3	7,5Pa		
S	31	TAGGING				YES (SEE GENERAL NOTES 3)			
SRIE	32	SURGE PROTECTOR					YES		
SSC	33	DISPLAY			3 LINE LC	D WITH MULTI L	INGUAGE OPERAT	ING MENU	
ACCESSORIES	34	SENSOR CABLE LENGTH	TEMPERATURE				-		
Ä	35								
	36	FLUID	PHYSICAL STATUS		All	R	GA	S	
	_	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-	
(x)		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-	
οV	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-	
ITIO	40	PROJECT FLOW	Y						
ΝΟ̈́	41	DESIGN PRESSURE	DESIGN TEMPE	RATURÉ		bar-g		℃	
) <i>9</i>	42	DENSITY @ OPERATING					kg/m³		
OPERATING CONDITIONS	43	VISCOSITY @ OPERATING	s CONDITION				Ср		
'ER		FLUID CONDUCTIVITY				·	S/cm²		
OP.		INCRUSTATION					NO		
	46	SUSPENDED SOLIDS (%)					NO		
		MAXIMUM LOSS OF LOAD	ALLOWED				-		
\vdash	48	MANUEACTURES		TEATA					
	49	MANUFACTURER				IESTO	OR SIMILAR		
	50	MODEL							









TITLE

TRANSMITTERS

SHEET: 31 de 56 REV.:

							2	
1	INSTRUMENT TAG NUN	MBER			PDIT-A	A2046-001		
2	SERVIÇE			DIFERENTIA	AL PRESSURE AN	ID TEMPERATURE	ROOM A2046	
3	P&ID				7A-I	I-0-7-03		
₹ 4	PIPE LINE	EQUIPMENT	NUMBER	-	-	-		
5 6	EQUIPMENT MATERIAL	/ PIPE		FRONT I	PLATE STAINLES	S STEEL, HOUSING	9 PLASTIC	
6	AREA CLASSIFICATION	1			NOT CL	LASSIFIED		
7	ENCLOSURE CLASSIFIC	CATION			11	P-65		
8	CERTIFICATES				(SEE GENE	RAL NOTES 6)		
9)							
9	DIAMETER OF SENSOR	R TEMP DIAMETER	PRESSURE SENSOR	- 12mm/6mm				
10	0 TUBE MATERIAL	•		STAINLESS STEEL				
11	1 COATING MATERIAL			MANUFACTURING STANDARD				
12	2 ELECTRODE MATERIAL	=			3.	16SS		
13	3 GROUNDING RING MAT	TERIAL			YES (SEE GEI	VERAL NOTES 7	")	
14	4 CONNECTIONS			PRO	BE SOCKET MAN	IUFATURING STAN	IDARD	
15	5 LOCAL TEMPERATURE				2	22°C		
16	6 FLANGE FACE FINISH					-		
17	7 ELECTRICAL CONNECT	TION		ı	BACKPACK IN PO	STS IDENTIFICATE	ES	
18	8 MOUNTING				ON TH	HE WALL		
19	9 POWER SUPPLY				24 Vcc	: - 2 WIRE		
20 21 22 23 24 25 26 27	0 OUTPUT SIGNAL			4 - 20 mA - 2 WIRE (500 ohms	(500 ohms @ 24 V	cc)		
21	1 COMMUNICATION PRO	TOCOL			-			
22	2 PRECISION			± 0.3	3% F.E.			
23	3 REPEATABILITY		MANUFACTUR	RING STANDARD				
24	4 ELECTRICAL CONNECT		MANUFACTUR	RING STANDARD				
25	5 LOCAL INDICATION		YES, LO	CD FRONT				
26	6 RANGE TEMPERATURE		-20	to 70°C				
27	CALIBRATED RANGE TEMPERATURE				2	22°C		
28	8 KEYBOARD FOR LOCAL	L CONFIGURATION			Y	YES		
29	9 RANGE OF PRESSURE				0 to	100pA		
30	0 RANGE OF CALIBRATE	D PRESSURE			12	2,5Pa		
31	1 TAGGING				YES (SEE GEI	NERAL NOTES 3)		
32	2 SURGE PROTECTOR				Y	YES		
33	3 DISPLAY			3 LINE L	CD WITH MULTI LI	INGUAGE OPERAT	ING MENU	
34	4 SENSOR CABLE LENGT	TH TEMPERATURE				-		
32 33 34 35	5							
36	6 FLUID	PHYSICAL STATU	JS	A	IR	GA	S	
37	7 MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-	
38	8 MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-	
39	9 MINIMUM TEMPERATUI	RE NORMAL	MAXIMUM	-	-	-	-	
40	_							
41		DESIGN TEM	<i>IPERATURE</i>		bar-g		℃	
_	2 DENSITY @ OPERATIN					kg/m³		
\vdash	3 VISCOSITY @ OPERAT	ING CONDITION				Ср		
-	4 FLUID CONDUCTIVITY					S/cm²		
\vdash	5 INCRUSTATION					NO		
46	6 SUSPENDED SOLIDS (9	<u> </u>				NO		
47	7 MAXIMUM LOSS OF LO.	AD ALLOWED				-		
48								
-	9 MANUFACTURER				TESTO (OR SIMILAR		
50	0 MODEL							









TITLE

TRANSMITTERS

SHEET: 32 de 56 REV.:

								2
	1	INSTRUMENT TAG NUMBI	ER			MIT / PDIT	/ TIT-A2001-001	
	2	SERVIÇE			HUMIDITY -	DIFERENTIAL PI	RESSURE - TEMP -	ROOM A2001
	3	P&ID				7A-	·I-0-7-03	
ΑL	4	PIPE LINE	EQUIPMENT NU	MBER		-	-	
GENERAL	5	EQUIPMENT MATERIAL / F	PIPE		FRONT	PLATE STAINLES	S STEEL, HOUSING	PLASTIC
3EN	6	AREA CLASSIFICATION				NOTC	CLASSIFIED	
-	7	ENCLOSURE CLASSIFICA	TION				IP-65	
	8	CERTIFICATES				(SEE GENI	ERAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR T	EMP DIAMETER PR	ESSURE SENSOR	121	mm	12mm/	6mm
	10	TUBE MATERIAL				STAINL	ESS STEEL	
	11	COATING MATERIAL				MANUFACTU	RING STANDARD	
~	12	ELECTRODE MATERIAL				3	316SS	
METER	13	GROUNDING RING MATER	RIAL			YES (SEE GE	NERAL NOTES 7,)
ME	14	CONNECTIONS			PRC		NUFATURING STAN	
	15	LOCAL TEMPERATURE					22°C	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTIO)N			BACKPACK IN P	OSTS IDENTIFICATE	ES .
	18	MOUNTING				ON 7	HE WALL	
	19	POWER SUPPLY				24 Vc	c - 2 WIRE	
	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIRI	E (500 ohms @ 24 Vo	cc)
~	21	COMMUNICATION PROTO	OCOL				-	
1EF	22	PRECISION				± 0.	.3% F.E.	
LIMS	_	REPEATABILITY				MANUFACTU	IRING STANDARD	
ANS		ELECTRICAL CONNECTIO)N			MANUFACTU	IRING STANDARD	
CONVERTER / TRANSMITTER		LOCAL INDICATION					.CD FRONT	
ER/		RANGE HUMIDITY					90%RH	
RT	-		MIDITY			30-	-60%RH	
NVE						-20	to 70°C	
00	27	CALIBRATED RANGE TEM	IPERATURE				22°C	
	28	KEYBOARD FOR LOCAL C	CONFIGURATION				YES	
	29	CALIBRATED RANGE PRE	SSURE			3	7,5Pa	
	30	RANGE OF PRESSURE				0 to	o 100pA	
,	31	TAGGING				YES (SEE GE	NERAL NOTES 3)	
ES	32	SURGE PROTECTOR					YES	
		DISPLAY			3 LINE LO	CD WITH MULTI L	INGUAGE OPERAT	ING MENU
2		SENSOR CABLE LENGTH	TEMPERATURE				METERS	
		FLUID	PHYSICAL STATUS			-	GA	S
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	=
ွ	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-
NO.	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	=
[D/T.	40	PROJECT FLOW		•			l	
8	41	DESIGN PRESSURE	DESIGN TEMPE	RATURE		Pa		°C
9	42	DENSITY @ OPERATING (CONDITION				kg/m³	
471	43	VISCOSITY @ OPERATING	G CONDITION				Ср	
OPERATING CONDITIONS	44	FLUID CONDUCTIVITY				μ	ıS/cm²	
9	45	INCRUSTATION				<u> </u>	NO	
	47	MAXIMUM LOSS OF LOAD	ALLOWED				-	
	48							
	49	MANUFACTURER		TESTO	OR SIMILAR			
	50	MODEL						
		1						









TITLE

TRANSMITTERS

SHEET: 33 de 56 REV.:

							2	
1	INSTRUMENT TAG NUMB	ER			MIT / PDIT /	/ TIT-A2002-001		
2	SERVIÇE			HUMIDITY	- DIFERENTIAL PR	RESSURE - TEMP -	ROOM A2002	
3	P&ID				7A-	I-0-7-03		
₹ 4	PIPE LINE	EQUIPMEN	NT NUMBER		-	-		
3ENERAL 5 6	EQUIPMENT MATERIAL /	PIPE		FRONT	PLATE STAINLES	S STEEL, HOUSING	PLASTIC	
6 G	AREA CLASSIFICATION				NOT C	LASSIFIED		
7	ENCLOSURE CLASSIFICA	TION			ı	IP-65		
8	CERTIFICATES				(SEE GENE	ERAL NOTES 6)		
9								
9	DIAMETER OF SENSOR 1	EMP DIAMETE	R PRESSURE SENSOR	? 12	mm	12mm/	'6mm	
10	TUBE MATERIAL				STAINL	ESS STEEL		
11	COATING MATERIAL				MANUFACTU	RING STANDARD		
_ 12	ELECTRODE MATERIAL				3	16SS		
` —	GROUNDING RING MATE	RIAL			YES (SEE GE	NERAL NOTES 7)	
14	CONNECTIONS			PRO		NUFATURING STAN		
15	LOCAL TEMPERATURE							
16	FLANGE FACE FINISH				22°C			
	ELECTRICAL CONNECTION)N			BACKPACK IN PO	OSTS IDENTIFICATE	 ES	
_	MOUNTING				ON T	HE WALL		
	POWER SUPPLY					c - 2 WIRE		
	OUTPUT SIGNAL			E (500 ohms @ 24 Vo				
0.4	COMMUNICATION PROTO		-					
22	PRECISION		+0	3% F.E.				
23	REPEATABILITY			RING STANDARD				
24	ELECTRICAL CONNECTION			RING STANDARD				
25	LOCAL INDICATION			CD FRONT				
20	RANGE HUMIDITY					90%RH		
25	CALIBRATED RANGE HUN			60%RH				
₹ —	RANGE TEMPERATURE					to 70°C		
3 27	CALIBRATED RANGE TEN	MPERATI IRE				22°C		
_	KEYBOARD FOR LOCAL O					YES		
-	CALIBRATED RANGE PRE					2,5Pa		
<u> </u>	RANGE OF PRESSURE					o 100pA		
+	TAGGING					•		
	SURGE PROTECTOR				YES (SEE GENERAL NOTES 3) YES			
X:1——	DISPLAY			2 LINE I	YES 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU			
	SENSOR CABLE LENGTH	TEMPERATURE		3 LINL L		METERS	ING WILING	
	FLUID	PHYSICAL STA	THS			GA	<u> </u>	
-	MINIMUM FLOW	NORMAL	MAXIMUM	 		- GA	<u>.</u>	
20		NORMAL	MAXIMUM			-	<u>-</u>	
≨			MAXIMUM	-	<u> </u>			
39		NOTWIAL	IMAXIIVIOIVI	+		-		
40		DESIGNI TI	EMPERATURE		Pa		°C	
41			IVII LIVATURE		ļ.	kg/m³		
42								
43		3 CONDITION				Cp 1S/cm²		
44	FLUID CONDUCTIVITY					NO		
45						NO		
47		ALLUWED				-		
48					TEOTO			
49		MANUFACTURER				OR SIMILAR		
50	MODEL							









TITLE

TRANSMITTERS

SHEET: 34 de 56

TR	AN	SMITTERS						REV.:		
	1	INSTRUMENT TAG NUMBE	:D			DDIT	A2026 001	2		
7	1				PDIT-A2026-001					
		SERVIÇE			DIFERENTIAL PRESSURE - ROOM A2026					
	3	P&ID PIPE LINE EQUIPMENT NUMBER			7A-I-0-7-03 					
GENERAL	4									
ENE		EQUIPMENT MATERIAL / P	FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC							
Ġ	_	AREA CLASSIFICATION	NOT CLASSIFIED							
		ENCLOSURE CLASSIFICAT	IP-65							
	8	CERTIFICATES	(SEE GENERAL NOTES 6)							
	9	DIAMETER OF SENSOR TI	EMP DIAMETER PRE	COURT SENSOR		- 12mm/6mm				
	9		EMP DIAMETER PRE	SSURE SENSOR						
		TUBE MATERIAL	STAINLESS STEEL							
		COATING MATERIAL	MANUFACTURING STANDARD							
ER		ELECTRODE MATERIAL	316SS							
METER		GROUNDING RING MATER CONNECTIONS	YES (SEE GENERAL NOTES 7)							
_			PROBE SOCKET MANUFATURING STANDARD							
		LOCAL TEMPERATURE FLANGE FACE FINISH	22℃							
		ELECTRICAL CONNECTION	PACKDACK IN POOTO IDENTIFICATES							
_		MOUNTING	<i>Di</i>	BACKPACK IN POSTS IDENTIFICATES						
		POWER SUPPLY				ON THE WALL				
		OUTPUT SIGNAL			1.	24 Vcc - 2 WIRE 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
	_	COMMUNICATION PROTO	COI		4-20 MA - 2 WINE (300 0 MINS @ 24 VCC)					
TER		PRECISION	COL		± 0.3% F.E.					
MIT					MANUFACTURING STANDARD					
3NY		REPEATABILITY ELECTRICAL CONNECTION			MANUFACTURING STANDARD					
/TRANSMITTER		LOCAL INDICATION	YES, LCD FRONT							
∃R /		RANGE HUMIDITY	0-90%RH							
CONVERTER		CALIBRATED RANGE HUM	30-60%RH							
NVE		RANGE TEMPERATURE			-20 to 70°C					
00		CALIBRATED RANGE TEM	PERATURE		22°C					
	28	KEYBOARD FOR LOCAL CONFIGURATION			YES					
	29	CALIBRATED RANGE PRESSURE			62,5Pa					
	30	RANGE OF PRESSURE			0 to 100pA					
/2	31	TAGGING	YES (SEE GENERAL NOTES 3)							
S (0.S.S	32	SURGE PROTECTOR			YES					
ACCESSORI ES	33	DISPLAY			3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU					
AC	34	SENSOR CABLE LENGTH TEMPERATURE					-			
	36	FLUID	PHYSICAL STATUS		-		G	4S		
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
S/	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-		
70/7	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-		
CONDITIONS	40	PROJECT FLOW								
	41	DESIGN PRESSURE	Pa °C							
ING	42	DENSITY @ OPERATING CONDITION			kg/m³					
OPERATING	43	VISCOSITY @ OPERATING CONDITION			Ср					
) PEF	44	FLUID CONDUCTIVITY			μS/cm²					
0	45	INCRUSTATION	NO							
		MAXIMUM LOSS OF LOAD	<u>-</u>							
Ш	48									
	49	MANUFACTURER	TESTO OR SIMILAR							
	50	MODEL								









TITI F

TRANSMITTERS

SHFFT: 35 de 56

2 INSTRUMENT TAG NUMBER PDIT-A2027-001-1 SERVIÇE DIFERENTIAL PRESSURE - ROOM A2027 2 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR TEMP DIAMETER PRESSURE SENSOR 9 TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 PROBE SOCKET MANUFATURING STANDARD 14 CONNECTIONS 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 24 Vcc - 2 WIRE 19 POWER SUPPLY **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 COMMUNICATION PROTOCOL 21 'TRANSMITTER 22 PRECISION ± 0.3% F.E. MANUFACTURING STANDARD 23 REPEATABILITY 24 **ELECTRICAL CONNECTION** MANUFACTURING STANDARD 25 LOCAL INDICATION YES, LCD FRONT CONVERTER / RANGE HUMIDITY 24 0-90%RH CALIBRATED RANGE HUMIDITY 25 30-60%RH RANGE TEMPERATURE -20 to 70°C 26 CALIBRATED RANGE TEMPERATURE 22°C 27 KEYBOARD FOR LOCAL CONFIGURATION 28 YES 29 CALIBRATED RANGE PRESSURE 62,5Pa RANGE OF PRESSURE 0 to 100pA 30 31 **TAGGING** YES (SEE GENERAL NOTES 3) SURGE PROTECTOR YES 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY 34 SENSOR CABLE LENGTH TEMPERATURE 36 FLUID PHYSICAL STATUS GAS 37 MINIMUM FLOW NORMAL ΜΑΧΙΜΙ ΙΜ MINIMUM PRESSURE NORMAL MAXIMUM 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 PROJECT FLOW 40 DESIGN PRESSURE DESIGN TEMPERATURE Pa °C 41 42 DENSITY @ OPERATING CONDITION ka/m³ VISCOSITY @ OPERATING CONDITION 43 Ср 44 FLUID CONDUCTIVITY µS/cm² INCRUSTATION 45 NO 47 MAXIMUM LOSS OF LOAD ALLOWED 48 MANUFACTURER TESTO OR SIMILAR MODEL









TITLE

TRANSMITTERS

SHEET: 36 de 56 REV.:

TR	AN	SMITTERS						REV.: 2	
-	1	INSTRUMENT TAG NUMBE	PDIT-A2027-001-2						
GENERAL	2	SERVIÇE	DIFERENTIAL PRESSURE - ROOM A2027						
	3	P&ID	7A-1-0-7-03						
	4	PIPE LINE EQUIPMENT NUMBER							
	5	EQUIPMENT MATERIAL / PIPE			FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC				
	6				NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICA	IP-65						
	8	CERTIFICATES	(SEE GENERAL NOTES 6)						
	9			<u> </u>	· · · · · · · · · · · · · · · · · · ·				
	9	DIAMETER OF SENSOR T	-	- 12mm/6mm					
	10	TUBE MATERIAL	I		STAINLESS STEEL				
	11	COATING MATERIAL	MANUFACTURING STANDARD						
r	12	ELECTRODE MATERIAL			316SS				
METER	13	GROUNDING RING MATERIAL			YES (SEE GENERAL NOTES 7)				
ME	14	CONNECTIONS			PROBE SOCKET MANUFATURING STANDARD				
	15	LOCAL TEMPERATURE	22℃						
	16	FLANGE FACE FINISH	-						
	17	ELECTRICAL CONNECTIO	N		В	BACKPACK IN POSTS IDENTIFICATES			
	18	MOUNTING		ON THE WALL					
	19	POWER SUPPLY			24 Vcc - 2 WIRE				
	20	OUTPUT SIGNAL			4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
ĸ	21	COMMUNICATION PROTO	COL						
ITTE	22	PRECISION			± 0.3% F.E.				
ISM	23	REPEATABILITY			MANUFACTURING STANDARD				
RAN	24	ELECTRICAL CONNECTION			MANUFACTURING STANDARD				
CONVERTER / TRANSMITTER		LOCAL INDICATION			YES, LCD FRONT				
TEF	24	RANGE HUMIDITY			0-90%RH				
VER	_	CALIBRATED RANGE HUN	30-60%RH						
ΝO		RANGE TEMPERATURE			-20 to 70°C				
0		CALIBRATED RANGE TEM			22°C				
	_	KEYBOARD FOR LOCAL C			YES				
	29	CALIBRATED RANGE PRE	SSURE		62,5Pa				
	30	RANGE OF PRESSURE			0 to 100pA				
SSORI S	_	TAGGING				YES (SEE GENERAL NOTES 3)			
ESS ES		SURGE PROTECTOR			21 NE LO	YES 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU			
ACCES ES	33	DISPLAY SENSOR CABLE LENGTH TEMPERATURE			3 LINE LUI	ννιιΠ IVIULII	-	I II VG IVIEIVU	
_	_	FLUID	PHYSICAL STATUS	 				AS	
l	\vdash	MINIMUM FLOW	NORMAL	MAXIMUM		_	-	 	
۲۵	38	MINIMUM PRESSURE	NORMAL	MAXIMUM		_	-	-	
OPERATING CONDITIONS	39	MINIMUM TEMPERATURE		MAXIMUM		-	-	-	
	40	PROJECT FLOW	1 -			1	I	l	
	41	DESIGN PRESSURE		Pa		°C			
	42	DESIGN PRESSURE DESIGN TEMPERATURE DENSITY @ OPERATING CONDITION			kg/m³				
	43	VISCOSITY @ OPERATING CONDITION			Ср				
		FLUID CONDUCTIVITY			μS/cm²				
	45	INCRUSTATION			NO				
	47	MAXIMUM LOSS OF LOAD ALLOWED					-		
	48								
	49	MANUFACTURER			TESTO OR SIMILAR				
	50	MODEL							









TITLE

TRANSMITTERS

SHEET: 37 de 56 REV.:

1 INSTRUMENT TAG NUMBER 2 SERVIÇE 3 P&ID 4 PIPE LINE EQUIPMENT NUMBE 5 EQUIPMENT MATERIAL / PIPE 6 AREA CLASSIFICATION 7 ENCLOSURE CLASSIFICATION 8 CERTIFICATES 9 9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING		FRONT P	FERENTIAL PRES 7A-I LATE STAINLESS NOT CL (SEE GENE STAINLE MANUFACTUR 3' YES (SEE GENE BE SOCKET MAN	2031-001-1 SSURE - ROOM A203 L-0-7-03 - S STEEL, HOUSING F LASSIFIED P-65 RAL NOTES 6) 12mm/6i ESS STEEL RING STANDARD 16SS NERAL NOTES 7) IUFATURING STAND	PLASTIC	
3 P&ID 4 PIPE LINE EQUIPMENT NUMBE 5 EQUIPMENT MATERIAL / PIPE 6 AREA CLASSIFICATION 7 ENCLOSURE CLASSIFICATION 8 CERTIFICATES 9 9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING		FRONT P	TA-I LATE STAINLESS NOT CL II (SEE GENE STAINLE MANUFACTUF 3: YES (SEE GENE	-0-7-03 -S STEEL, HOUSING FLASSIFIED P-65 FRAL NOTES 6) 12mm/6i ESS STEEL RING STANDARD 16SS NERAL NOTES 7)	PLASTIC	
4 PIPE LINE EQUIPMENT NUMBER 5 EQUIPMENT MATERIAL / PIPE 6 AREA CLASSIFICATION 7 ENCLOSURE CLASSIFICATION 8 CERTIFICATES 9 9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING		-	LATE STAINLESS NOT CL (SEE GENE STAINLE MANUFACTUR 3' YES (SEE GENE BE SOCKET MAN	S STEEL, HOUSING P LASSIFIED P-65 RAL NOTES 6) 12mm/6i ESS STEEL RING STANDARD 16SS NERAL NOTES 7)	mm	
5 EQUIPMENT MATERIAL / PIPE 6 AREA CLASSIFICATION 7 ENCLOSURE CLASSIFICATION 8 CERTIFICATES 9 9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING		-	NOT CL (SEE GENE STAINLE MANUFACTUR 3' YES (SEE GENE BE SOCKET MAN	P-65 FAL NOTES 6) 12mm/6i ESS STEEL RING STANDARD 16SS VERAL NOTES 7)	mm	
7 ENCLOSURE CLASSIFICATION 8 CERTIFICATES 9 9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING	EURE SENSOR	-	NOT CL (SEE GENE STAINLE MANUFACTUR 3' YES (SEE GENE BE SOCKET MAN	P-65 FAL NOTES 6) 12mm/6i ESS STEEL RING STANDARD 16SS VERAL NOTES 7)	mm	
7 ENCLOSURE CLASSIFICATION 8 CERTIFICATES 9 9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING	EURE SENSOR		STAINLE MANUFACTUR 3° YES (SEE GEN BE SOCKET MAN	P-65 PRAL NOTES 6) 12mm/6i ESS STEEL RING STANDARD 16SS NERAL NOTES 7)		
7 ENCLOSURE CLASSIFICATION 8 CERTIFICATES 9 9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING	EURE SENSOR		STAINLE MANUFACTUR 3° YES (SEE GEN BE SOCKET MAN	P-65 PRAL NOTES 6) 12mm/6i ESS STEEL RING STANDARD 16SS NERAL NOTES 7)		
8 CERTIFICATES 9 9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING	URE SENSOR		(SEE GENE STAINLE MANUFACTUR 3° YES (SEE GEN BE SOCKET MAN	12mm/6i ESS STEEL RING STANDARD 16SS NERAL NOTES 7)		
9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING	URE SENSOR		STAINLE MANUFACTUF 3 YES (SEE GEN BE SOCKET MAN	12mm/6i ESS STEEL RING STANDARD 16SS NERAL NOTES 7)		
9 DIAMETER OF SENSOR TEMP DIAMETER PRESS 10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING	EURE SENSOR		MANUFACTUR 3: YES (SEE GEN BE SOCKET MAN	ESS STEEL RING STANDARD 16SS NERAL NOTES 7)		
10 TUBE MATERIAL 11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING	UNE SENSOR		MANUFACTUR 3: YES (SEE GEN BE SOCKET MAN	ESS STEEL RING STANDARD 16SS NERAL NOTES 7)		
11 COATING MATERIAL 12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING			MANUFACTUR 3: YES (SEE GEN BE SOCKET MAN	RING STANDARD 16SS NERAL NOTES 7)	APD	
12 ELECTRODE MATERIAL 13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING			3° YES (SEE GEN BE SOCKET MAN	16SS NERAL NOTES 7)	APD.	
13 GROUNDING RING MATERIAL 14 CONNECTIONS 15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING			YES (SEE GEI BE SOCKET MAN	NERAL NOTES 7)	APD	
15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING			BE SOCKET MAN		APD	
15 LOCAL TEMPERATURE 16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING		PROE		IUFATURING STAND	A P D	
16 FLANGE FACE FINISH 17 ELECTRICAL CONNECTION 18 MOUNTING					חוע	
17 ELECTRICAL CONNECTION 18 MOUNTING			2	22°C		
18 MOUNTING						
		В	ACKPACK IN PO	STS IDENTIFICATES		
40 DOWED OUDDLY			ON TH	HE WALL		
19 POWER SUPPLY			24 Vcc	- 2 WIRE		
20 OUTPUT SIGNAL		4	- 20 mA - 2 WIRE	(500 ohms @ 24 Vcc)	
21 COMMUNICATION PROTOCOL				-		
22 PRECISION			± 0.3	3% F.E.		
23 REPEATABILITY			MANUFACTUR	CTURING STANDARD CTURING STANDARD		
24 ELECTRICAL CONNECTION			MANUFACTUR			
25 LOCAL INDICATION			YES, LO	CD FRONT		
24 RANGE HUMIDITY			0-9	0%RH		
22 PRECISION 23 REPEATABILITY 24 ELECTRICAL CONNECTION 25 LOCAL INDICATION 24 RANGE HUMIDITY 25 CALIBRATED RANGE TEMPERATURE 27 CALIBRATED RANGE TEMPERATURE			30-6	50%RH		
26 RANGE TEMPERATURE			-20	to 70°C		
27 CALIBRATED RANGE TEMPERATURE				2°C		
28 KEYBOARD FOR LOCAL CONFIGURATION				YES		
29 CALIBRATED RANGE PRESSURE				2,5Pa		
30 RANGE OF PRESSURE				100pA		
24 TACCINC				NERAL NOTES 3)		
32 SURGE PROTECTOR				YES		
32 SURGE PROTECTOR 33 DISPLAY		21 INE 1 0		NGUAGE OPERATIN	IC MENII I	
34 SENSOR CABLE LENGTH TEMPERATURE		3 LIIVL LO	- WITH MOLITE	THEORGE OF LIVATIN	O IVILIVO	
			Т	- 040		
36 FLUID PHYSICAL STATUS	40 ×1041 104	-	, 	GAS		
	1AXIMUM	-	1 - 1	-	-	
38 MINIMUM PRESSURE NORMAL M	1AXIMUM	-	 	-	-	
O 39 MINIMUM TEMPERATURE NORMAL M	1AXIMUM	-		-	-	
40 PROJECT FLOW						
8 41 DESIGN PRESSURE DESIGN TEMPERAT	URE		Pa	°C	;	
9 42 DENSITY @ OPERATING CONDITION				kg/m³		
39 MINIMUM TEMPERATURE NORMAL M 40 PROJECT FLOW 41 DESIGN PRESSURE DESIGN TEMPERATURE 42 DENSITY @ OPERATING CONDITION 43 VISCOSITY @ OPERATING CONDITION 44 FLUID CONDUCTIVITY 45 INCRUSTATION				Cp .		
描 44 FLUID CONDUCTIVITY			•	S/cm²		
O 45 INCRUSTATION				NO		
47 MAXIMUM LOSS OF LOAD ALLOWED				-		
48						
49 MANUFACTURER			TESTO (OR SIMILAR		
50 MODEL						









TITLE

TRANSMITTERS

SHEET: 38 de 56 REV.:

								2
	1	INSTRUMENT TAG NUMBI	ER .			PDIT-A	A2031-001-2	
	2	SERVIÇE			D	IFERENTIAL PRE	SSURE - ROOM A20	031
	3	P&ID				7A-	-I-0-7-03	
ΑL	4	PIPE LINE	EQUIPMENT NUM	/BER	-	-	-	
GENERAL	5	EQUIPMENT MATERIAL / F	PIPE		FRONT I	PLATE STAINLES	S STEEL, HOUSING	PLASTIC
GEN	6	AREA CLASSIFICATION				NOTC	CLASSIFIED	
-	7	ENCLOSURE CLASSIFICA	TION				IP-65	
	8	CERTIFICATES				(SEE GENI	ERAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR T	EMP DIAMETER PRE	SSURE SENSOR	-	-	12mm/	6mm
	10	TUBE MATERIAL				STAINL	ESS STEEL	
	11	COATING MATERIAL				MANUFACTU	RING STANDARD	
~	12	ELECTRODE MATERIAL				3	316SS	
METER	13	GROUNDING RING MATER	RIAL			YES (SEE GE	NERAL NOTES 7,)
ME	14	CONNECTIONS			PRO		NUFATURING STAN	
	15	LOCAL TEMPERATURE					22°C	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTIO	N			BACKPACK IN P	OSTS IDENTIFICATE	S
	18	MOUNTING				ON T	HE WALL	
	19	POWER SUPPLY				24 Vc	c - 2 WIRE	
	20	OUTPUT SIGNAL				4 - 20 mA - 2 WIRI	E (500 ohms @ 24 Vo	cc)
۵	21	COMMUNICATION PROTO	COL				-	
HE	22	PRECISION				± 0.	.3% F.E.	
SMI	23	REPEATABILITY				MANUFACTU	RING STANDARD	
CONVERTER / TRANSMITTER	24	ELECTRICAL CONNECTIO		MANUFACTU	RING STANDARD			
/TR	25	LOCAL INDICATION				YES, L	.CD FRONT	
ER.	24	RANGE HUMIDITY				0-:	90%RH	
ER1	25	CALIBRATED RANGE HUN	MIDITY			30-	-60%RH	
NV	26	RANGE TEMPERATURE				-20	to 70°C	
S	27	CALIBRATED RANGE TEM	<i>IPERATURE</i>				22°C	
	28	KEYBOARD FOR LOCAL C	ONFIGURATION				YES	
	29	CALIBRATED RANGE PRE	SSURE			6	2,5Pa	
	30	RANGE OF PRESSURE				0 to	o 100pA	
R/	31	TAGGING				YES (SEE GE	NERAL NOTES 3)	
ESSURI ES	32	SURGE PROTECTOR					YES	
	33	DISPLAY			3 LINE LO	CD WITH MULTI L	INGUAGE OPERAT	ING MENU
ACC	34	SENSOR CABLE LENGTH	TEMPERATURE			10 1	METERS	
	36	FLUID	PHYSICAL STATUS				GA	S
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-
S	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-
70/7	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	•	-	-	-
ND/	40	PROJECT FLOW						
00	41	DESIGN PRESSURE	DESIGN TEMPER	RATURE		Pa		°C
OPERATING CONDITIONS	42	DENSITY @ OPERATING (kg/m³	
ZAT.	43	VISCOSITY @ OPERATING	CONDITION				Ср	
PEF	44	FLUID CONDUCTIVITY				μ	ıS/cm²	
0	45	INCRUSTATION					NO	
	47	MAXIMUM LOSS OF LOAD	ALLOWED				-	
	48							
		MANUFACTURER				TESTO	OR SIMILAR	
	50	MODEL						









NUMBER: 569-DB7A-AIC-700-002 CLIENT NR: PRD-AIC-DSH-001

TITLE

TRANSMITTERS

SHEET: 39 de 56 REV.:

` ` `								2
	1	INSTRUMENT TAG NUMB	ER			PDIT-A2	2032-001-1	
	2	SERVIÇE			D	IFERENTIAL PRES	SSURE - ROOM A2	032
	3	P&ID				7A-I	I-0-7-03	
ΑL	4	PIPE LINE	EQUIPMENT	TNUMBER		-	-	
IER.	5	EQUIPMENT MATERIAL /	PIPE		FRONT	PLATE STAINLESS	S STEEL, HOUSING	9 PLASTIC
GENERAL	6	AREA CLASSIFICATION				NOT CL	ASSIFIED	
	7	ENCLOSURE CLASSIFICA	ATION				P-65	
	8	CERTIFICATES				(SEE GENE	RAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR	TEMP DIAMETER	R PRESSURE SENSOR			12mm/	/6mm
	10	TUBE MATERIAL	l e e e e e e e e e e e e e e e e e e e			STAINLE	ESS STEEL	
	11	COATING MATERIAL				MANUFACTUR	RING STANDARD	
~	12	ELECTRODE MATERIAL				3.	16SS	
METER	13	GROUNDING RING MATE	RIAL			YES (SEE GEN	NERAL NOTES 7	")
ME	14	CONNECTIONS			PRO		IUFATURING STAN	
	15	LOCAL TEMPERATURE				2	2°C	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTION	DN			BACKPACK IN PO	STS IDENTIFICATE	ES
	18	MOUNTING				ON TH	HE WALL	
	19	POWER SUPPLY				24 Vcc	- 2 WIRE	
	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIRE	(500 ohms @ 24 V	cc)
~	21	COMMUNICATION PROTO	OCOL				-	
ITE	22	PRECISION				± 0.3	3% F.E.	
SMI	23	REPEATABILITY				MANUFACTUR	RING STANDARD	
CONVERTER / TRANSMITTER	24	ELECTRICAL CONNECTION			MANUFACTUR	CTURING STANDARD		
/TR	25	LOCAL INDICATION				YES, LO	CD FRONT	
ER.	24	RANGE HUMIDITY				0-9	0%RH	
ER1	25	CALIBRATED RANGE HUI	MIDITY			30-6	60%RH	
NV	26	RANGE TEMPERATURE				-20	to 70°C	
\mathcal{S}	27	CALIBRATED RANGE TEN	MPERATURE			2	2°C	
	28	KEYBOARD FOR LOCAL (CONFIGURATION			,	YES	
	29	CALIBRATED RANGE PRE	ESSURE			62	2,5Pa	
	30	RANGE OF PRESSURE				0 to	100pA	
RI	31	TAGGING				YES (SEE GEI	NERAL NOTES 3)	
ESSORI ES	32	SURGE PROTECTOR				Y	YES	
CE: E	33	DISPLAY			3 LINE LO	CD WITH MULTI LI	INGUAGE OPERAT	ING MENU
ACC	34	SENSOR CABLE LENGTH	TEMPERATURE				-	
	36	FLUID	PHYSICAL STAT	US			GA	S
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-
S	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-
7017	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-
IQN	40	PROJECT FLOW						
00		DESIGN PRESSURE		MPERATURE		Pa		°C
OPERATING CONDITIONS	42	DENSITY @ OPERATING					kg/m³	
RAT.	43	VISCOSITY @ OPERATIN	G CONDITION				Cp .	
) PEF		FLUID CONDUCTIVITY					S/cm²	
0		INCRUSTATION					NO	
	47	MAXIMUM LOSS OF LOAD	O ALLOWED				-	
Ш	48							
		MANUFACTURER				TESTO (OR SIMILAR	
	50	MODEL						









TITLE

TRANSMITTERS

SHEET: 40 de 56 REV.:

								2
	1	INSTRUMENT TAG NUMBE	R			PDIT-A	2032-001-2	
	2	SERVIÇE			D	IFERENTIAL PRE	SSURE - ROOM A20	132
	3	P&ID				7A-	·I-0-7-03	
AL	4	PIPE LINE	EQUIPMENT NUM	1BER	-	-	-	
GENERAL	5	EQUIPMENT MATERIAL / P	IPE .		FRONT I	PLATE STAINLES	S STEEL, HOUSING	PLASTIC
GEI	6	AREA CLASSIFICATION				NOTC	LASSIFIED	
	7	ENCLOSURE CLASSIFICAT	TION			ı	IP-65	
	8	CERTIFICATES				(SEE GENE	ERAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR TO	EMP DIAMETER PRE	SSURE SENSOR	-	-	12mm/6	6mm
	10	TUBE MATERIAL	•			STAINL	ESS STEEL	
	11	COATING MATERIAL				MANUFACTU	RING STANDARD	
æ	12	ELECTRODE MATERIAL				3	316SS	
METER	13	GROUNDING RING MATER	NAL			YES (SEE GE	NERAL NOTES 7)	
M	14	CONNECTIONS			PRO	BE SOCKET MAI	NUFATURING STANI	DARD
	15	LOCAL TEMPERATURE					22°C	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTION	V			BACKPACK IN PO	OSTS IDENTIFICATE	S
	18	MOUNTING				ON T	HE WALL	
	19	POWER SUPPLY				24 Vc	c - 2 WIRE	
	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIRI	E (500 ohms @ 24 Vc	c)
Ä	21	COMMUNICATION PROTO	COL				-	
ITI	22	PRECISION				± 0.	3% F.E.	
ISM	23	REPEATABILITY				MANUFACTU	RING STANDARD	
ZAN	24	ELECTRICAL CONNECTION			MANUFACTU	RING STANDARD		
1/1	25	LOCAL INDICATION		YES, L	CD FRONT			
CONVERTER / TRANSMITTER	24	RANGE HUMIDITY				0-9	90%RH	
/ER	25	CALIBRATED RANGE HUM	IDITY			30-	60%RH	
OM		RANGE TEMPERATURE				-20	to 70°C	
O	27	CALIBRATED RANGE TEM	PERATURE				22°C	
	28	KEYBOARD FOR LOCAL C					YES	
	29	CALIBRATED RANGE PRE	SSURE				2,5Pa	
	30	RANGE OF PRESSURE					o 100pA	
OR!	31	TAGGING				<u>_</u>	ENERAL NOTES 3)	
ESSORI ES		SURGE PROTECTOR					YES OPERATION	NO 145."'
ACCE	33	DISPLAY	TEL ADED A T. 125		3 LINE LO	WITH MULTIL	INGUAGE OPERATI	NG MENU
۲		SENSOR CABLE LENGTH	1			•	-	
		FLUID	PHYSICAL STATUS		•	-	GAS)
		MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-
SNC		MINIMUM PRESSURE MINIMUM TEMPERATURE	NORMAL NORMAL	MAXIMUM MAXIMUM	-	-	-	-
CONDITIONS	39	PROJECT FLOW	NONWAL	MAXIMON	-		-	-
JNC		DESIGN PRESSURE	DESIGN TEMPER	ATLIPE		Pa		nc
	41 42	DENSITY @ OPERATING O		ATONL			kg/m³	
OPERATING	43	VISCOSITY @ OPERATING					култ- Ср	
ERA		FLUID CONDUCTIVITY	CONDITION				IS/cm²	
OPŁ		INCRUSTATION				μ	NO NO	
	_	MAXIMUM LOSS OF LOAD	ALLOWED					
	48	2000 01 20ND						
	_	MANUFACTURER				TESTO	OR SIMILAR	
	_	MODEL						
	3							









TITLE

TRANSMITTERS

SHEET: 41 de 56 REV.:

								2
	1	INSTRUMENT TAG NUMB	ER			MIT / PDIT /	TIT-A2036-001	<u>.</u>
	2	SERVIÇE			HUMIDITY -	- DIFERENTIAL PR	RESSURE - TEMP -	ROOM A2036
	3	P&ID				7A-	I-0-7-03	
AL	4	PIPE LINE	EQUIPMENT	TNUMBER		-	-	
GENERAL	5	EQUIPMENT MATERIAL /	PIPE		FRONT	PLATE STAINLES	S STEEL, HOUSING	9 PLASTIC
GE	6	AREA CLASSIFICATION				NOT CI	LASSIFIED	
	7	ENCLOSURE CLASSIFICA	ATION			1.	P-65	
	8	CERTIFICATES				(SEE GENE	RAL NOTES 6)	
	9							
	9	DIAMETER OF SENSOR	TEMP DIAMETER	R PRESSURE SENSOR	12	mm	12mm	/6mm
	10	TUBE MATERIAL				STAINL	ESS STEEL	
	11	COATING MATERIAL				MANUFACTU	RING STANDARD	
œ	12	ELECTRODE MATERIAL				3	16SS	
METER	13	GROUNDING RING MATE	RIAL			YES (SEE GEI	VERAL NOTES 7	")
ME	14	CONNECTIONS			PRO	DBE SOCKET MAN	IUFATURING STAN	IDARD
	15	LOCAL TEMPERATURE				2	22°C	
	16	FLANGE FACE FINISH					-	
	17	ELECTRICAL CONNECTION	ON			BACKPACK IN PC	STS IDENTIFICATI	ES
	18	MOUNTING				ON TI	HE WALL	
	19	POWER SUPPLY				24 Vcc	: - 2 WIRE	
	20	OUTPUT SIGNAL				4 - 20 mA - 2 WIRE	(500 ohms @ 24 V	cc)
۵	21	COMMUNICATION PROTO	OCOL				-	
ITE	22	PRECISION				± 0	3% F.E.	
SMI	23	REPEATABILITY				MANUFACTUI	RING STANDARD	
AN	24	ELECTRICAL CONNECTION		MANUFACTUI	RING STANDARD			
/ TR	25	LOCAL INDICATION		YES, LO	CD FRONT			
CONVERTER / TRANSMITTER	24	RANGE HUMIDITY				0-9	0%RH	
ERI	25	CALIBRATED RANGE HUI	MIDITY			30-6	60%RH	
NV	26	RANGE TEMPERATURE				-20	to 70°C	
$\ddot{\circ}$	27	CALIBRATED RANGE TEN	MPERATURE			2	?2°C	
	28	KEYBOARD FOR LOCAL (CONFIGURATION			,	YES	
	29	CALIBRATED RANGE PRI	ESSURE			57	7,5Pa	
	30	RANGE OF PRESSURE				0 to	100pA	
ואו	31	TAGGING				YES (SEE GE	NERAL NOTES 3)	
ESSORI ES	32	SURGE PROTECTOR				,	YES	
CE E	33	DISPLAY			3 LINE L	CD WITH MULTI L	INGUAGE OPERAT	TING MENU
ACC	34	SENSOR CABLE LENGTH	TEMPERATURE			10 N	1ETERS	
	36	FLUID	PHYSICAL STAT	US		-	GA	s ————
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-
ΛS	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-
710/	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-
CONDITIONS	40	PROJECT FLOW						
	41	DESIGN PRESSURE		MPERATURE		Pa		℃
OPERATING	42	DENSITY @ OPERATING					kg/m³	
RAT	43		G CONDITION				Ср	
ÞΕ		FLUID CONDUCTIVITY				·	S/cm²	
S	_	INCRUSTATION					NO	
		MAXIMUM LOSS OF LOAD	O ALLOWED				-	
	48	AAA##5A 07#55=					20.04	
	49	MANUFACTURER				TESTO (OR SIMILAR	
	50	MODEL						









TITLE

TRANSMITTERS

SHEET: 42 de 56 REV.:

							2
	1	INSTRUMENT TAG NUMBE	R		MIT / I	PDIT / TIT-A2037-001	
	2	SERVIÇE			HUMIDITY - DIFERENTI	AL PRESSURE - TEMP - RO	OM A2037
	3	P&ID				7A-I-0-7-03	
7	4	PIPE LINE	EQUIPMEN	T NUMBER	-	-	
GENERAL	5	EQUIPMENT MATERIAL / F	PIPE		FRONT PLATE STAIL	NLESS STEEL, HOUSING PL	ASTIC
j	6	AREA CLASSIFICATION			N	OT CLASSIFIED	
	7	ENCLOSURE CLASSIFICA	TION			IP-65	
	8	CERTIFICATES			(SEE	GENERAL NOTES 6)	
	9						
	9	DIAMETER OF SENSOR T	EMP DIAMETEI	R PRESSURE SENSOR	12mm	12mm/6mi	m
	10	TUBE MATERIAL	*		S7	TAINLESS STEEL	
	11	COATING MATERIAL			MANUFA	ACTURING STANDARD	
.	12	ELECTRODE MATERIAL				316SS	
	13	GROUNDING RING MATER	RIAL		YES (SEE	GENERAL NOTES 7)	
		CONNECTIONS				MANUFATURING STANDA	RD
	15	LOCAL TEMPERATURE				22°C	
	16	FLANGE FACE FINISH				-	
	17	ELECTRICAL CONNECTIO	N		BACKPACK	IN POSTS IDENTIFICATES	
1	18	MOUNTING				ON THE WALL	
	_	POWER SUPPLY			2	24 Vcc - 2 WIRE	
		OUTPUT SIGNAL			4 - 20 mA - 2	WIRE (500 ohms @ 24 Vcc)	
.	21	COMMUNICATION PROTO	COL			=	
i	22	PRECISION				± 0.3% F.E.	
	23	REPEATABILITY		ACTURING STANDARD			
N KAIV	24	ELECTRICAL CONNECTIO	N		MANUFA	ACTURING STANDARD	
	25	LOCAL INDICATION			Y	ES, LCD FRONT	
	24	RANGE HUMIDITY				0-90%RH	
	\vdash	CALIBRATED RANGE HUMIDITY				0-90%RH 30-60%RH	
7	26	RANGE TEMPERATURE				-20 to 70°C	
3	-	CALIBRATED RANGE TEM	PERATURE			22°C	
	28	KEYBOARD FOR LOCAL C	ONFIGURATION			YES	
	29	CALIBRATED RANGE PRE	SSURE			37,5Pa	
	30	RANGE OF PRESSURE				0 to 100pA	
	31	TAGGING			YES (SE	E GENERAL NOTES 3)	
ا ٍ ,		SURGE PROTECTOR			(-	YES	
ES	-	DISPLAY			3 LINE LCD WITH MU	ILTI LINGUAGE OPERATING	G MENU
	34	SENSOR CABLE LENGTH	TEMPERATURE			10 METERS	
		FLUID	PHYSICAL STAT	rus	-	GAS	
		MINIMUM FLOW	NORMAL	MAXIMUM	-		
		MINIMUM PRESSURE	NORMAL	MAXIMUM			
		MINIMUM TEMPERATURE		MAXIMUM		+	
	40	PROJECT FLOW	1	ļ.	ļ		
		DESIGN PRESSURE	DESIGN TE	MPERATURE	Pa	°C	
		DENSITY @ OPERATING (kg/m³	
	43						
	_	FLUID CONDUCTIVITY				μS/cm²	
		INCRUSTATION				NO	
	_	MAXIMUM LOSS OF LOAD	ALLOWED			-	
	48	I I I I I I I I I I I I I I I I I I I					
ㅓ		MANUFACTURER			TF	STO OR SIMILAR	
		MODEL			,,,	- 2	
	TES:	I					









TITLE

TRANSMITTERS

SHEET: 43 de 56 REV.:

''	AIN	SWITTERS						2		
	1	INSTRUMENT TAG NUMBE	R			TIT-	A1035-001			
		SERVIÇE			HUMIDITY - F		PRESSURE - TEMP	- ROOM A1035		
		P&ID					A-I-0-7-03			
4	_	PIPE LINE	EQUIPMENT NUI	MBFR	-		<u> </u>	-		
ER/		EQUIPMENT MATERIAL / PA			FRONT PI	ATE STAINI E	I SS STEEL, HOUSIN	IG PLASTIC		
GENERAL	_	AREA CLASSIFICATION	· -				CLASSIFIED			
1	_	ENCLOSURE CLASSIFICAT	TON				IP-65			
	8	CERTIFICATES				(SEE GEN	IERAL NOTES 6)			
	9	02.11.11.10.11.20				(022 02.	.2.1.2.110.120.0)			
\vdash	9	DIAMETER OF SENSOR TE	MP DIAMETER PRE	ESSURE SENSOR	12mi	n	I	-		
	_	TUBE MATERIAL	!			STAIN	LESS STEEL			
	11	COATING MATERIAL				MANUFACT	URING STANDARD			
\ \	12	ELECTRODE MATERIAL					316SS			
METER	13	GROUNDING RING MATER	IAL		,	YES (SEE GI	ENERAL NOTES	7)		
ME	14	CONNECTIONS				•	ANUFATURING STA	,		
	15	LOCAL TEMPERATURE					22℃			
	16	FLANGE FACE FINISH					-			
	17	ELECTRICAL CONNECTION	V		В	ACKPACK IN F	POSTS IDENTIFICAT	TES		
	18	MOUNTING				ON	THE WALL			
	19	POWER SUPPLY				24 V	cc - 2 WIRE			
	20	OUTPUT SIGNAL			4 -	20 mA - 2 WIF	RE (500 ohms @ 24 \	Vcc)		
α.	21	COMMUNICATION PROTOC	COL				-			
12	22	PRECISION				± (0.3% F.E.			
CONVERTER / TRANSMITTER	23	REPEATABILITY				MANUFACT	CTURING STANDARD			
SAN	24	ELECTRICAL CONNECTION		MANUFACT	URING STANDARD					
11/	25	LOCAL INDICATION				YES,	LCD FRONT			
TER	24	RANGE HUMIDITY				0	-90%RH			
Æ	25	CALIBRATED RANGE HUM	IDITY			30	0-60%RH			
νo	-	RANGE TEMPERATURE				-2	0 to 70°C			
S	_	CALIBRATED RANGE TEMP					22°C			
	_	KEYBOARD FOR LOCAL CO					YES			
		CALIBRATED RANGE PRES	SSURE							
		RANGE OF PRESSURE					to 100pA			
OR I		TAGGING				YES (SEE G	ENERAL NOTES 3)			
-SSORI ES	-	SURGE PROTECTOR					YES			
ACCE	33	DISPLAY			3 LINE LCI		LINGUAGE OPERA	TING MENU		
A	34		T			10	METERS	40		
	-	FLUID MINIMUM FLOW	PHYSICAL STATUS	MAXIMUM	-	1	-	AS T		
	37		NORMAL NORMAL		-	-	-	-		
SNC	38	MINIMUM PRESSURE MINIMUM TEMPERATURE		MAXIMUM MAXIMUM	-	-	-	-		
CONDITIONS	39 40	PROJECT FLOW	NONWAL	MAZIMOM	-		<u> </u>			
ONE	41	DESIGN PRESSURE	DESIGN TEMPER	RATURE		Pa		°C		
ٽ ق	42			UITORLE		, u	kg/m³	<u> </u>		
OPERATING	43	_					Cp			
ERA	44						μS/cm²			
OPI		INCRUSTATION					NO			
	-	MAXIMUM LOSS OF LOAD	ALLOWED				-			
	48									
	_	MANUFACTURER				TESTO	OR SIMILAR			
	\vdash	MODEL								









TITLE

TRANSMITTERS

SHEET: 44 de 56 REV.:

NUMBER EQUIPMEN RIAL / PIPE TION SIFICATION	T NUMBER	FRONT I	TEMP - F 7A-	2008-001 ROOM A2008 I-0-7-03		
RIAL / PIPE	T NUMBER	FRONT I	7A- -			
RIAL / PIPE	T NUMBER	FRONT I	-	I-0-7-03 -		
RIAL / PIPE	T NUMBER	FRONT I	-	-		
TION		FRONT I				
			PLATE STAINLES	S STEEL, HOUSING	PLASTIC	
SIFICATION			NOT C	LASSIFIED		
			I	IP-65		
			(SEE GENE	ERAL NOTES 6)		
ISOR TEMP DIAMETER	R PRESSURE SENSOR	121	mm	-		
•			STAINL	ESS STEEL		
L			MANUFACTU	RING STANDARD		
RIAL			3	16SS		
MATERIAL			YES (SEE GE	NERAL NOTES 7	")	
		PRO	BE SOCKET MAN	JUFATURING STAN	IDARD	
URE			2			
SH				-		
IECTION			BACKPACK IN PC	OSTS IDENTIFICATE	ES	
			ON T	HE WALL		
			24 Vcc	c - 2 WIRE		
		4	4 - 20 mA - 2 WIRE	= (500 ohms @ 24 V		
PROTOCOL				=		
			± 0.	3% F.E.		
			MANUFACTU			
NNECTION MANUFACTURING STANDAR	RING STANDARD					
LOCAL INDICATION						
GE HUMIDITY			30-	 60%RH		
URE			0 to	100pA		
-				•		
)R						
· ·		3 LINE LO			ING MENU	
NGTH TEMPERATURE						
	-US	-			S	
NORMAL	MAXIMUM	-	-	- [-	
	MAXIMUM	_	-	_	-	
	MAXIMUM	-	- 1	-	-	
	· ·					
E DESIGN TE	MPERATURE		Pa		°C	
				NO		
FLOAD ALLOWED						
			TESTO	OR SIMILAR		
	TURE JISH JINECTION JAPROTOCOL JINECTION JOSEPHUMIDITY JURE JURE	TURE JISH JINECTION JAMES AND	TURE JISH JINECTION JAMESTION JAMESTION	PROBE SOCKET MAN TURE	PROBE SOCKET MANUFATURING STAN TURE 12°C IISH 10NECTION 10N THE WALL 24 Vcc - 2 WIRE 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vc 14 - 20 mA - 2 WIRE (500 ohms @ 24 Vc 14 - 20 mA - 2 WIRE (500 ohms @ 24 Vc 15 - 20 ohms @ 24 Vc 16 PROTOCOL 10	









TITLE

TRANSMITTERS

SHEET: 45 de 56 REV.:

''`	AIN	SWITTERS						2
	1	INSTRUMENT TAG NUMBE	ER .			TIT-FS-	A2001-001	
	2	SERVIÇE				TEMP - R	200M A2049	
	3	P&ID				7A-1	I-0-7-03	
76	4	PIPE LINE	EQUIPMENT	NUMBER				
ER	_	EQUIPMENT MATERIAL / P	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		FRONT F	PLATE STAINLES:	S STEEL, HOUSING	PLASTIC
GENERAL	-	AREA CLASSIFICATION					LASSIFIED	
0		ENCLOSURE CLASSIFICAT	TION				P-65	
	8	CERTIFICATES					RAL NOTES 6)	
	9	OLIVINIO/VIEG				(022 02742		
	9	DIAMETER OF SENSOR TO	EMP DIAMETER	PRESSURE SENSOR	12n	mm		
	<u> </u>	TUBE MATERIAL	DI WILLER	THEOGOTHE OFFICER	121		ESS STEEL	
	<u> </u>	COATING MATERIAL					RING STANDARD	
		ELECTRODE MATERIAL					16SS	
METER		GROUNDING RING MATER	DIAI					
NET		CONNECTIONS	IIAL		000		VERAL NOTES 7)	
'	_				PRU		IUFATURING STANI	JARU
	-	LOCAL TEMPERATURE					?2°C	
		FLANGE FACE FINISH	N/			DACKDACK IN SO	-	
	_	ELECTRICAL CONNECTION	V				STS IDENTIFICATE	১
	-	MOUNTING					HE WALL	
	-	POWER SUPPLY					: - 2 WIRE	
	<u> </u>	OUTPUT SIGNAL			4	1 - 20 mA - 2 WIRE	(500 ohms @ 24 Vo	rc)
ER	21	COMMUNICATION PROTO	COL				-	
II.	22	PRECISION					3% F.E.	
ISM	23	REPEATABILITY				MANUFACTU	RING STANDARD	
₽A A	24	ELECTRICAL CONNECTION	V			MANUFACTU	RING STANDARD	
CONVERTER / TRANSMITTER	25	LOCAL INDICATION				YES, LO	CD FRONT	
TER	24	RANGE HUMIDITY				0-9	0%RH	
Æ,	25	CALIBRATED RANGE HUM	IDITY			30-6	60%RH	
WC	26	RANGE TEMPERATURE				-20	to 70°C	
ŏ	27	CALIBRATED RANGE TEM	PERATURE			2	22°C	
	28	KEYBOARD FOR LOCAL C	ONFIGURATION			,	YES	
	29	CALIBRATED RANGE PRE	SSURE					
	30	RANGE OF PRESSURE				0 to	100pA	
RI	31	TAGGING				YES (SEE GE	NERAL NOTES 3)	
=SSORI ES	32	SURGE PROTECTOR				,	YES	
CE_{E}	33	DISPLAY			3 LINE LO	CD WITH MULTI L	INGUAGE OPERATI	NG MENU
ACCE	34	SENSOR CABLE LENGTH	TEMPERATURE			10 N	1ETERS	
	36	FLUID	PHYSICAL STATU	S	-		GAS	S
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-
S	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-
CONDITIONS	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	- 1	-	-
'DIT	40	PROJECT FLOW					I.	
ΝO	41	DESIGN PRESSURE	DESIGN TEM	PERATURE		Pa	(C
) <i>9</i> /		DENSITY @ OPERATING C					kg/m³	
OPERATING	43	VISCOSITY @ OPERATING	CONDITION			(<u></u> Ср	
ER,		FLUID CONDUCTIVITY					S/cm²	
OP		INCRUSTATION					NO	
		MAXIMUM LOSS OF LOAD	ALLOWED				-	
	48	1						
		MANUFACTURER				TESTO (OR SIMILAR	
l	\vdash	MODEL						
NO								









TITLE

TRANSMITTERS

SHEET: 46 de 56 REV.:

I INAI	NOWITTERS							KE	v.: 2
1	INSTRUMENT TAG NUMBE	R				TIT-F	S-2002-001		
2	SERVIÇE					TEMP -	ROOM A2014		
3	P&ID					7A	N-I-0-7-03		
∄ 4	PIPE LINE	EQUIPMEN	IT NUMBER		-			-	
5	EQUIPMENT MATERIAL / P.	IPE		FROI	NT PLATE	STAINLE	SS STEEL, HOUS	ING PLA	STIC
4 5 6	AREA CLASSIFICATION					NOT	CLASSIFIED		
7	ENCLOSURE CLASSIFICAT	TON					IP-65		
8	CERTIFICATES					(SEE GEN	IERAL NOTES 6)		
9									
9	DIAMETER OF SENSOR TE	MP DIAMETE	R PRESSURE SENSO	R	12mm			-	
10	TUBE MATERIAL					STAIN	LESS STEEL		
11	COATING MATERIAL				MA	ANUFACT	JRING STANDAR	D	
. 12	ELECTRODE MATERIAL						316SS		
13	GROUNDING RING MATER	IAL			YES	(SEE GE	ENERAL NOTES	S 7)	
14	CONNECTIONS			F	PROBE SO	OCKET MA	NUFATURING ST	ANDARI)
15	LOCAL TEMPERATURE						22°C		
16	FLANGE FACE FINISH						-		
17	ELECTRICAL CONNECTION	I			BACK	PACK IN P	OSTS IDENTIFICA	4TES	
18	MOUNTING					ON :	THE WALL		
19	POWER SUPPLY					24 V	cc - 2 WIRE		
20	OUTPUT SIGNAL				4 - 20 r	nA - 2 WIR	RE (500 ohms @ 24	4 Vcc)	
21	COMMUNICATION PROTOC	COL					-		
22	PRECISION					± 0.3% F.E.			
23	REPEATABILITY	REPEATABILITY				ANUFACT	ACTURING STANDARD		
24	ELECTRICAL CONNECTION		MA	ANUFACT	JRING STANDAR	D			
22 23 24 25 26 26 26 26 26	LOCAL INDICATION			YES,	LCD FRONT				
24	RANGE HUMIDITY					0-	-90%RH		
25	CALIBRATED RANGE HUM	DITY				30)-60%RH		
26	RANGE TEMPERATURE					-20	0 to 70°C		
27	CALIBRATED RANGE TEMP	PERATURE					22°C		
28	KEYBOARD FOR LOCAL CO	ONFIGURATION					YES		
29	CALIBRATED RANGE PRES	SSURE							
30	RANGE OF PRESSURE					0 :	to 100pA		
31	TAGGING				YE	S (SEE G	ENERAL NOTES 3	3)	
, 32	SURGE PROTECTOR						YES		
33	DISPLAY			3 LIN	E LCD WI	TH MULTI	LINGUAGE OPER	RATING N	1ENU
34	SENSOR CABLE LENGTH 1	EMPERATURE				10	METERS		
36	FLUID	PHYSICAL STA	TUS		-			GAS	
37	MINIMUM FLOW	NORMAL	MAXIMUM	-		-	-		-
38 39 40 41	MINIMUM PRESSURE	NORMAL	MAXIMUM	-		-	-		-
39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-		-	-		-
40	PROJECT FLOW	-	-		•		-	,	
41	DESIGN PRESSURE	DESIGN TE	EMPERATURE		Pa			°C	
42	DENSITY @ OPERATING C	ONDITION					kg/m³		
43	VISCOSITY @ OPERATING	CONDITION					Ср		
42 43 44	FLUID CONDUCTIVITY						μS/cm²		
45	INCRUSTATION	NCRUSTATION					NO		
47	MAXIMUM LOSS OF LOAD	ALLOWED					-		
48									
49	MANUFACTURER					TESTO	OR SIMILAR		
50	MODEL								









TITLE

TRANSMITTERS

SHEET: 47 de 56 REV.:

IKA	4N	SMITTERS						REV.: 2
Т	1	INSTRUMENT TAG NUMBEI	R			TIT-FI	R-3801-001	
-	_	SERVIÇE					ROOM A2037	
-		P&ID					-I-0-7-03	
. ⊩	_	PIPE LINE	EQUIPMENT NUI	MRER	_	7/	10700	_
F. F.	_	EQUIPMENT MATERIAL / PI		VIDER	ER∩NIT DI	I ATE STAINII ES	SS STEEL, HOUSIN	NG PLASTIC
si H		AREA CLASSIFICATION	, L		TROWTT		CLASSIFIED	NOT EASTIC
· -	_	ENCLOSURE CLASSIFICAT	TON				IP-65	
-	_	CERTIFICATES	ION					
-	_	CERTIFICATES				(SEE GENI	ERAL NOTES 6)	
-	9	DIAMETER OF SENSOR TO	TAID DIAMETER DO	TOOLIDE OFNOOD	40			_
⊢	-	DIAMETER OF SENSOR TE	DIAMETER PRE	ESSURE SENSOR	12m		FOR OTEF!	
-		TUBE MATERIAL					ESS STEEL	
- ⊢		COATING MATERIAL					IRING STANDARD	1
ER		ELECTRODE MATERIAL					B16SS	- \
<u> </u>		GROUNDING RING MATERI	IAL				NERAL NOTES	
⊢		CONNECTIONS			PRUE		NUFATURING STA	MNDARD
_ L		LOCAL TEMPERATURE					22℃	
-	-	FLANGE FACE FINISH	,			40KD40K IN D	-	TE0
_	-	ELECTRICAL CONNECTION	· ·		В.		OSTS IDENTIFICA	IES
-		MOUNTING					THE WALL	
-		POWER SUPPLY					c - 2 WIRE	
- 1	_	OUTPUT SIGNAL			4	- 20 mA - 2 WIRI	E (500 ohms @ 24	Vcc)
ER.		COMMUNICATION PROTOC	COL				-	
	_	PRECISION					.3% F.E.	
√ S/		REPEATABILITY					IRING STANDARD	
RA I		ELECTRICAL CONNECTION	<i>I</i>				IRING STANDARD	
		LOCAL INDICATION					.CD FRONT	
		RANGE HUMIDITY					90%RH	
< ⊢		CALIBRATED RANGE HUMI	DITY				-60%RH	
<u>Ş</u> [_	RANGE TEMPERATURE					0 to 70°C	
L.		CALIBRATED RANGE TEMP					22°C	
⊢	_	KEYBOARD FOR LOCAL CO					YES	
- 1	_	CALIBRATED RANGE PRES	SSURE					
+	•••	RANGE OF PRESSURE					o 100pA	
: L	-	TAGGING					ENERAL NOTES 3)	l
S	_	SURGE PROTECTOR					YES	
: ⊢	_	DISPLAY			3 LINE LCI		INGUAGE OPERA	ATING MENU
-	_	SENSOR CABLE LENGTH T	1			10 /	METERS	
⊢		FLUID	PHYSICAL STATUS	T	-			GAS T
H	-	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-
§ L		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-
$\frac{1}{2}$		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-
<u> </u>		PROJECT FLOW	In-page :					
<u>ب</u>		DESIGN PRESSURE	DESIGN TEMPER	KATURÉ		Pa		℃
ຊິ <u> </u>		DENSITY @ OPERATING C					kg/m³	
Ž L	_	VISCOSITY @ OPERATING	CONDITION				Ср	
E L		FLUID CONDUCTIVITY					ıS/cm²	
Ľ	_	INCRUSTATION					NO	
H		MAXIMUM LOSS OF LOAD A	ALLOWED				-	
-	48						00.0000	
Ŀ		MANUFACTURER				TESTO	OR SIMILAR	
	50	MODEL						









TITLE

TRANSMITTERS

SHEET: 48 de 56 REV.:

									2	
	1	INSTRUMENT TAG NUMBE	R				TIT-FI	R-3901-001		
	2	SERVIÇE					TEMP - I	ROOM A2036		
	3	P&ID					7A-	·I-0-7-03		
4 F	4	PIPE LINE	EQUIPMEN	NT NUMBI	ER	-		-		
GENERAL	5	EQUIPMENT MATERIAL / P.	IPE .			FRONT F	PLATE STAINLES	S STEEL, HOUSING	PLASTIC	
3EV	6	AREA CLASSIFICATION					NOTC	LASSIFIED		
Ť	_	ENCLOSURE CLASSIFICAT	TON					IP-65		
ŀ		CERTIFICATES					(SEE GENI	ERAL NOTES 6)		
F	9						(
+	9	DIAMETER OF SENSOR TE	MP DIAMETE	R PRESS	SURE SENSOR	12r	nm	-		
ŀ	_	TUBE MATERIAL						ESS STEEL		
H		COATING MATERIAL						RING STANDARD		
H		ELECTRODE MATERIAL						316SS		
≒ L		GROUNDING RING MATER	ΙΔΙ					NERAL NOTES 7,	1	
1		CONNECTIONS				DDO.		NUFATURING STAN		
L		LOCAL TEMPERATURE				FRO		22°C	DAND	
H								22 0		
-		FLANGE FACE FINISH	1					-	-0	
_		ELECTRICAL CONNECTION	V					OSTS IDENTIFICATE	:5	
H		MOUNTING						THE WALL		
H	_	POWER SUPPLY						c - 2 WIRE		
⊢	_	OUTPUT SIGNAL				4	- 20 mA - 2 WIRI	E (500 ohms @ 24 Vo) 	
í þ		COMMUNICATION PROTOC	COL					-		
:		PRECISION						3% F.E.		
}	_	REPEATABILITY						CTURING STANDARD		
		ELECTRICAL CONNECTION					MANUFACTU	RING STANDARD		
		LOCAL INDICATION					YES, L	CD FRONT		
]	24	RANGE HUMIDITY					0-:	90%RH		
į	25	CALIBRATED RANGE HUM	IDITY				30-	60%RH		
) L		RANGE TEMPERATURE					-20	to 70°C		
	27	CALIBRATED RANGE TEMP	PERATURE					22°C		
	28	KEYBOARD FOR LOCAL CO	ONFIGURATION					YES		
	29	CALIBRATED RANGE PRES	SSURE							
	30	RANGE OF PRESSURE					0 to	o 100pA		
	31	TAGGING					YES (SEE GE	ENERAL NOTES 3)		
ွ	32	SURGE PROTECTOR						YES		
ES	33	DISPLAY				3 LINE LO	D WITH MULTI L	INGUAGE OPERAT	ING MENU	
	34	SENSOR CABLE LENGTH 1	EMPERATURE				10 I	METERS		
T	36	FLUID	PHYSICAL STAT	TUS		-		GA	S	
Ţ	37	MINIMUM FLOW	NORMAL	٨	<i>MAXIMUM</i>	=	-	-	-	
	38	MINIMUM PRESSURE	NORMAL	٨	<i>MAXIMUM</i>	-	- 1	-	-	
	39	MINIMUM TEMPERATURE	NORMAL	٨	<i>MAXIMUM</i>	-	-	-	-	
ľ	40	PROJECT FLOW	-					•		
t	41	DESIGN PRESSURE	DESIGN TE	EMPERAT	TURE		Pa		°C	
t	42	DENSITY @ OPERATING C	ONDITION					kg/m³		
t	_	VISCOSITY @ OPERATING						Ср		
t	44	FLUID CONDUCTIVITY						ıS/cm²		
t		INCRUSTATION						NO		
⊢	_	MAXIMUM LOSS OF LOAD	ALLOWED					-		
- 1-	48									
-		MANUFACTURER					TESTO	OR SIMILAR		
⊢		MODEL								
) TE										









TITLE

TRANSMITTERS

SHEET: 49 de 56 REV.:

```								2			
	1	INSTRUMENT TAG NUMB	ER			MIT / TIT-A1037-001					
	2	SERVIÇE				HUMIDITY - TEMP - ROOM A1037					
	3	P&ID				7A-I-0-7-03					
GENERAL	4	PIPE LINE	EQUIPMENT	NUMBER							
VER	5	EQUIPMENT MATERIAL /	PIPE		FRONT	PLATE STAINLES	S STEEL, HOUSING	PLASTIC			
GEI	6	AREA CLASSIFICATION				NOT C	LASSIFIED				
	7	ENCLOSURE CLASSIFICA	ATION			I.	P-65				
	8	CERTIFICATES				(SEE GENE	RAL NOTES 6)				
	9										
	9	DIAMETER OF SENSOR	TEMP DIAMETER	PRESSURE SENSOR	121	mm	-				
	10	TUBE MATERIAL				STAINL	ESS STEEL				
	11	COATING MATERIAL				MANUFACTUI	RING STANDARD				
Я	12	ELECTRODE MATERIAL				3	16SS				
METER	13	GROUNDING RING MATE	RIAL			YES (SEE GEI	NERAL NOTES 7	)			
M	14	CONNECTIONS			PRC	BE SOCKET MAN	IUFATURING STAN	DARD			
	15	LOCAL TEMPERATURE				2	22°C				
	16	FLANGE FACE FINISH					-				
	17	ELECTRICAL CONNECTION	ON			BACKPACK IN PC	STS IDENTIFICATE	ES			
	18	MOUNTING				ON TI	HE WALL				
	19	POWER SUPPLY				24 Vcc	:-2 WIRE				
	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIRE	(500 ohms @ 24 V	cc)			
Ä	21	COMMUNICATION PROTO	OCOL		-						
ITTE	22	PRECISION			± 0.3% F.E.						
ISM	23	REPEATABILITY				MANUFACTURING STANDARD					
RAN	24	ELECTRICAL CONNECTION	ON			MANUFACTURING STANDARD					
11/	25	LOCAL INDICATION				YES, LO	CD FRONT				
CONVERTER / TRANSMITTER	24	RANGE HUMIDITY				0-9	00%RH				
/ER	25	CALIBRATED RANGE HUI	MIDITY			30-6	60%RH				
WO		RANGE TEMPERATURE				-20 to 70°C					
O	27	CALIBRATED RANGE TEN	MPERATURE				22°C				
		KEYBOARD FOR LOCAL (				,	YES				
	_	CALIBRATED RANGE PRE	ESSURE								
		RANGE OF PRESSURE					100pA				
ORI		TAGGING				YES (SEE GENERAL NOTES 3)					
ESSORI ES		SURGE PROTECTOR			0.1.0.5	YES  3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU					
ACCE	33	DISPLAY	TEMPED ATURE		3 LINE LO			ING MENU			
$\forall$		SENSOR CABLE LENGTH		10		10 N	METERS	9			
		FLUID MINIMUM FLOW	PHYSICAL STATU NORMAL	MAXIMUM		-	GA -				
		MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	<u> </u>			
SNC	39	MINIMUM TEMPERATURE		MAXIMUM	-	<del> </del>	-	<u>-</u>			
CONDITIONS	40	PROJECT FLOW	I VOI WINE	WASSINGIVI	-		ļ	•			
ONE	41	DESIGN PRESSURE	DESIGN TEN	MPERATURE		Pa		°C			
	42	DENSITY @ OPERATING			kg/m³						
OPERATING	43	_					. <del>у,,,,</del> Ср				
ERA		FLUID CONDUCTIVITY					S/cm²				
0P,		INCRUSTATION				·	NO				
	_	MAXIMUM LOSS OF LOAD	O ALLOWED				-				
	48										
П	49	MANUFACTURER				TESTO (	OR SIMILAR				
	_	MODEL									









NUMBER: 569-DB7A-AIC-700-002 CLIENT NR: PRD-AIC-DSH-001

TITLE

# TRANSMITTERS

SHEET: 50 de 56 REV.:

• • •		······							2		
	1	INSTRUMENT TAG NUME	BER			MIT / TIT-A1002-001					
	2	SERVIÇE				HUMIDITY AND TEMPERATURE - ROOM A1002					
	3	P&ID				7A-I-0-7-03					
47	4	PIPE LINE	EQUIPMEI	NT NUMBER	)						
IER,	5	EQUIPMENT MATERIAL /		FRONT F	PLATE STAINLESS	S STEEL, HOUSING	S PLASTIC				
GENERAL	6	AREA CLASSIFICATION					NOT CL	ASSIFIED			
	7	ENCLOSURE CLASSIFIC	ATION					P-65			
	8	CERTIFICATES					(SEE GENE	RAL NOTES 6)			
	9						•				
	9	DIAMETER OF SENSOR	HUMIDITY AND TE	MPERATUR	E	12 <i>r</i>	nm				
	10	TUBE MATERIAL					STAINLE	ESS STEEL			
	11	COATING MATERIAL					MANUFACTUR	RING STANDARD			
~	12	ELECTRODE MATERIAL					31	16SS			
METER	13	GROUNDING RING MATE	RIAL				YES (SEE GEN	NERAL NOTES 7	")		
ME	14	CONNECTIONS				PRO		UFATURING STAN			
	15	LOCAL TEMPERATURE					2	2°C			
	16	FLANGE FACE FINISH				-					
	17	ELECTRICAL CONNECTI			BACKPACK IN PO	STS IDENTIFICATE	ES				
	18	MOUNTING					ON TH	HE WALL			
	19	POWER SUPPLY					24 Vcc	- 2 WIRE			
	20	OUTPUT SIGNAL				4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)					
۵	21	COMMUNICATION PROT	OCOL			-					
ITE	22	PRECISION				± 0.3% F.E.					
SMI	23	REPEATABILITY				MANUFACTURING STANDARD					
CONVERTER / TRANSMITTER	24	ELECTRICAL CONNECTI	ON				MANUFACTUR	RING STANDARD			
/ TR	25	LOCAL INDICATION					YES, LO	CD FRONT			
ŒR	24	RANGE HUMIDITY					0-9	0%RH			
ERI	25	CALIBRATED RANGE HU	IMIDITY			30-60%RH					
NVC	26	RANGE TEMPERATURE				-20 to 70°C					
$\ddot{\circ}$	27	CALIBRATED RANGE TE	MPERATURE			22℃					
	28	KEYBOARD FOR LOCAL	CONFIGURATION				Y	/ES			
	29	CALIBRATED RANGE PR	ESSURE					-			
	30	RANGE OF PRESSURE				0 to 100pA					
)RI		TAGGING				YES (SEE GENERAL NOTES 3)					
ESSORI ES		SURGE PROTECTOR				YES					
)CE	33	DISPLAY				3 LINE LO	3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU				
ACC		SENSOR CABLE LENGTH	<del></del>				10 M	ETERS			
		FLUID	PHYSICAL STA			-		GA	S		
		MINIMUM FLOW	NORMAL		XIMUM	-	-	-	-		
NS		MINIMUM PRESSURE	NORMAL		XIMUM	-	-	-	-		
710,		MINIMUM TEMPERATUR	E NORMAL	MAX	XIMUM	-		-	-		
ION	40	PROJECT FLOW									
00 (		DESIGN PRESSURE DESIGN TEMPERATURE					Pa .		<u>℃</u>		
OPERATING CONDITIONS		DENSITY @ OPERATING				rg/m³					
RAI	43	VISCOSITY @ OPERATIN				Cp C/C					
)PE	44	FLUID CONDUCTIVITY			·	S/cm²					
		INCRUSTATION						NO			
	47	MAXIMUM LOSS OF LOA	D ALLOWED					-			
$\vdash$	48	MANUFACTURER					TESTO (	OR SIMILAR			
							1E310 (	ON SIIVIILAK			
Ш	50	MODEL									









TITLE

# TRANSMITTERS

SHEET: 51 de 56 REV.:

''`	MIN	SWITTERS						2		
	1	INSTRUMENT TAG NUMBE	ER		1	MIT / TIT-A1004-001				
		SERVIÇE			НИМІ	HUMIDITY AND TEMPERATURE - ROOM A1004				
	3	P&ID			7A-I-0-7-03					
GENERAL	4	PIPE LINE	EQUIPMEN	T NUMBER	-	7/17-7-03				
	$\vdash$				FRONT P	PI ATE STAINI ES:	S STEEL, HOUSING	G PLASTIC		
	6	AREA CLASSIFICATION	<i>" -</i>		77.0777		LASSIFIED	37210770		
	-	ENCLOSURE CLASSIFICA	TION				P-65			
	Ė	CERTIFICATES	TION				RAL NOTES 6)			
	8	CERTIFICATES				(SEE GEIVE	RAL NOTES 6)			
	9	DIAMETER OF SENSOR H	UMUDITY AND TEA	ADEDATUDE	12 <i>m</i>					
	9		DIVIIDITT AND TEN	MPERATURE	1211		ESS STEEL			
	_	TUBE MATERIAL				-				
		COATING MATERIAL					RING STANDARD			
ER	_	ELECTRODE MATERIAL					16SS	<b>-</b> \		
МЕТЕР			RIAL				VERAL NOTES 7	<u> </u>		
٧	14	CONNECTIONS			PROI		IUFATURING STAN	NDARD		
	_	LOCAL TEMPERATURE				2	?2°C			
		FLANGE FACE FINISH			1		-			
		ELECTRICAL CONNECTIO	N		E		STS IDENTIFICAT	ES		
	18	MOUNTING					HE WALL			
	19	POWER SUPPLY					:-2 WIRE			
	20	OUTPUT SIGNAL			4	4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
ΞR	21	COMMUNICATION PROTO	COL			<del>-</del>				
TTI	22	PRECISION				± 0.3% F.E.				
ISM	23	REPEATABILITY				MANUFACTU	RING STANDARD			
RAV	24	ELECTRICAL CONNECTIO	N			MANUFACTU	RING STANDARD			
CONVERTER / TRANSMITTER	25	LOCAL INDICATION				YES, LO	CD FRONT			
TER	24	RANGE HUMIDITY				0-9	10%RH			
ER.	25	CALIBRATED RANGE HUM	IIDITY			30-60%RH				
JW	26	RANGE TEMPERATURE				-20 to 70°C				
Ö	27	CALIBRATED RANGE TEM	PERATURE			22℃				
	28	KEYBOARD FOR LOCAL C	ONFIGURATION			YES				
	29	CALIBRATED RANGE PRE	SSURE				-			
	30	RANGE OF PRESSURE				0 to	100pA			
או	31	TAGGING			YES (SEE GENERAL NOTES 3)					
ESSORI ES	32	SURGE PROTECTOR				YES				
CE!	33	DISPLAY			3 LINE LC	D WITH MULTI L	INGUAGE OPERA	TING MENU		
ACCE	34	SENSOR CABLE LENGTH	TEMPERATURE			10 N	METERS			
	36	FLUID	PHYSICAL STAT	US	-		G/	IS		
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
S	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	- 1	-	-		
NO!	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	- 1	-	-		
CONDITIONS	40	PROJECT FLOW								
Ω	41	DESIGN PRESSURE	DESIGN TE	MPERATURE		Pa		°C		
79/	42	DENSITY @ OPERATING (	CONDITION				kg/m³			
OPERATING	43	VISCOSITY @ OPERATING	CONDITION			(	<u>С</u> р			
'ER,	44	FLUID CONDUCTIVITY					S/cm²			
OF						· · · · · · · · · · · · · · · · · · ·	NO			
	$\vdash$	MAXIMUM LOSS OF LOAD	ALLOWED				-			
	48									
П	_	MANUFACTURER			1	TESTO (	OR SIMILAR			
	50	MODEL								









TITLE

# **TRANSMITTERS**

SHEET: 52 de 56 REV.:

							2		
1	INSTRUMENT TAG NUMBE	R			MIT / TI	T-A1006-001			
2	SERVIÇE			НИМІ	DITY AND TEMP	PERATURE - ROOM	1 A 1006		
3	P&ID				7A-	I-0-7-03			
4 5 6	PIPE LINE	EQUIPMENT N	IUMBER	-		-	=		
5	EQUIPMENT MATERIAL / P.	IPE .		FRONT P	LATE STAINLES	S STEEL, HOUSING	G PLASTIC		
6	AREA CLASSIFICATION				NOT C	LASSIFIED			
7	ENCLOSURE CLASSIFICAT	TION			ı	IP-65			
8	CERTIFICATES				(SEE GENE	ERAL NOTES 6)			
9									
9	DIAMETER OF SENSOR HU	JMIDITY AND TEMPE	ERATURE	12 <i>m</i>	nm				
10	TUBE MATERIAL				STAINL	ESS STEEL			
11	COATING MATERIAL				MANUFACTU	RING STANDARD			
12	ELECTRODE MATERIAL				3	16SS			
13	GROUNDING RING MATER	MAL			YES (SEE GE	NERAL NOTES 7	7)		
13	CONNECTIONS			PROI		NUFATURING STAN			
15	LOCAL TEMPERATURE					22℃			
16	FLANGE FACE FINISH					-			
17	ELECTRICAL CONNECTION	V		Е	BACKPACK IN PO	DSTS IDENTIFICAT	ES		
-	MOUNTING				ON T	HE WALL			
19	POWER SUPPLY		24 Vc	c - 2 WIRE					
	OUTPUT SIGNAL			4	- 20 mA - 2 WIRE	E (500 ohms @ 24 V	/cc)		
21	COMMUNICATION PROTOC	COL		-					
22	PRECISION			± 0.3% F.E.					
23	REPEATABILITY			MANUFACTURING STANDARD					
24	ELECTRICAL CONNECTION	V			MANUFACTU	RING STANDARD			
25	LOCAL INDICATION				YES, L	CD FRONT			
24	RANGE HUMIDITY					90%RH			
	CALIBRATED RANGE HUM	IDITY		30-60%RH					
26	RANGE TEMPERATURE			-20 to 70°C					
27	CALIBRATED RANGE TEMI	PERATURE		22°C					
_	KEYBOARD FOR LOCAL CO				YES				
-	CALIBRATED RANGE PRES				-				
_	RANGE OF PRESSURE			0 to 100pA					
-	TAGGING			YES (SEE GENERAL NOTES 3)					
32	SURGE PROTECTOR			YES					
X:1—	DISPLAY			3 LINE LC		INGUAGE OPERAT	TING MENU		
	SENSOR CABLE LENGTH	TEMPERATURE			10 N	METERS			
36	FLUID	PHYSICAL STATUS	3	-		G.A.	AS		
37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-		
39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-		
40	PROJECT FLOW				-				
41	DESIGN PRESSURE	DESIGN TEMP	PERATURE	Pa °C					
42	+	CONDITION				kg/m³			
43		CONDITION		Cp					
: -	FLUID CONDUCTIVITY					IS/cm²			
45					<u>,                                      </u>	NO			
47	MAXIMUM LOSS OF LOAD	ALLOWED				-			
48									
49					TESTO	OR SIMILAR			
	MODEL								
1 ~	1								









PRD-AIC-DSH-001 569-DB7A-AIC-700-002 NUMBER: CLIENT NR:

TITI F

#### **TRANSMITTERS**

SHFFT: 53 de 56

TESTO OR SIMILAR

2 INSTRUMENT TAG NUMBER MIT / TIT-A1007-001 SERVIÇE HUMIDITY AND TEMPERATURE - ROOM A1007 2 P&ID 7A-I-0-7-03 3 4 PIPE LINE **EQUIPMENT NUMBER** EQUIPMENT MATERIAL / PIPE FRONT PLATE STAINLESS STEEL, HOUSING PLASTIC 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP-65 CERTIFICATES (SEE GENERAL NOTES 6) 8 DIAMETER OF SENSOR HUMIDITY AND TEMPERATURE TUBE MATERIAL STAINLESS STEEL 10 COATING MATERIAL MANUFACTURING STANDARD 12 ELECTRODE MATERIAL 316SS GROUNDING RING MATERIAL YES (SEE GENERAL NOTES 7) 13 PROBE SOCKET MANUFATURING STANDARD 14 CONNECTIONS 15 LOCAL TEMPERATURE 22°C FLANGE FACE FINISH **ELECTRICAL CONNECTION** BACKPACK IN POSTS IDENTIFICATES MOUNTING ON THE WALL 18 24 Vcc - 2 WIRE 19 POWER SUPPLY **OUTPUT SIGNAL** 4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc) 20 COMMUNICATION PROTOCOL 21 /TRANSMITTER 22 PRECISION ± 0.3% F.E. MANUFACTURING STANDARD 23 REPEATABILITY 24 **ELECTRICAL CONNECTION** MANUFACTURING STANDARD 25 LOCAL INDICATION YES, LCD FRONT CONVERTER / RANGE HUMIDITY 24 0-90%RH CALIBRATED RANGE HUMIDITY 25 30-60%RH RANGE TEMPERATURE -20 to 70°C 26 CALIBRATED RANGE TEMPERATURE 22°C 27 KEYBOARD FOR LOCAL CONFIGURATION 28 YES 29 CALIBRATED RANGE PRESSURE RANGE OF PRESSURE 0 to 100pA 30 31 **TAGGING** YES (SEE GENERAL NOTES 3) SURGE PROTECTOR 32 3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU 33 DISPLAY 34 SENSOR CABLE LENGTH TEMPERATURE 10 METERS 36 FLUID PHYSICAL STATUS GAS NORMAL 37 MINIMUM FLOW ΜΑΧΙΜΙ ΙΜ MINIMUM PRESSURE NORMAL MAXIMUM 38 OPERATING CONDITIONS MINIMUM TEMPERATURE NORMAL MAXIMUM 39 PROJECT FLOW 40 DESIGN PRESSURE DESIGN TEMPERATURE Pa °C 41 42 DENSITY @ OPERATING CONDITION ka/m³ VISCOSITY @ OPERATING CONDITION 43 Ср FLUID CONDUCTIVITY 44 µS/cm² INCRUSTATION 45 NO 47 MAXIMUM LOSS OF LOAD ALLOWED

NOTES:

48

MANUFACTURER

MODEL









TITLE

# **TRANSMITTERS**

SHEET: 54 de 56 REV.:

								2		
	1	INSTRUMENT TAG NUMBE	ER .			MIT / TIT	Г-A1019-001			
	2	SERVIÇE			HUMIDITY AND TEMPERATURE - ROOM A1019					
	3	P&ID			7A-I-0-7-03					
AL	4	PIPE LINE	EQUIPMENT NUM	/BER						
JER	5	EQUIPMENT MATERIAL / P	PIPE		FRONT	PLATE STAINLES	S STEEL, HOUSING	PLASTIC		
GENERAL	6	AREA CLASSIFICATION				NOT CI	LASSIFIED			
	7	ENCLOSURE CLASSIFICA	TION			1.	P-65			
	8	CERTIFICATES				(SEE GENE	RAL NOTES 6)			
	9					,	,			
	9	DIAMETER OF SENSOR HI	UMIDITY AND TEMPERA	ATURE	121	mm				
	10	TUBE MATERIAL				STAINL	ESS STEEL			
	11	COATING MATERIAL				MANUFACTUI	RING STANDARD			
~	12	ELECTRODE MATERIAL					16SS			
METER		GROUNDING RING MATER	RIAL			YES (SEE GEI	NERAL NOTES 7)	l		
ME		CONNECTIONS			PRC		IUFATURING STAN			
	_	LOCAL TEMPERATURE				2	22°C			
	16	FLANGE FACE FINISH					-			
		ELECTRICAL CONNECTION	N		<b>†</b>	BACKPACK IN PC	STS IDENTIFICATE	S		
		MOUNTING					HE WALL			
		POWER SUPPLY					: - 2 WIRE			
	_	OUTPUT SIGNAL				4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
2	_	COMMUNICATION PROTO	COL		-					
TEF		PRECISION			± 0.3% F.E.					
III	_	REPEATABILITY				MANUFACTURING STANDARD				
CONVERTER / TRANSMITTER		ELECTRICAL CONNECTION	N			MANUFACTURING STANDARD				
TR		LOCAL INDICATION								
ER/		RANGE HUMIDITY								
RTI		CALIBRATED RANGE HUM	IIDITY							
NVE		RANGE TEMPERATURE								
CO		CALIBRATED RANGE TEM	PERATURE		22°C					
		KEYBOARD FOR LOCAL C				YES				
	29	CALIBRATED RANGE PRE					-			
	30	RANGE OF PRESSURE				0 to 100pA				
ا ا	31	TAGGING			YES (SEE GENERAL NOTES 3)					
ESSORI ES	32	SURGE PROTECTOR			YES					
		DISPLAY			3 LINE LO	CD WITH MULTI L	INGUAGE OPERATI	NG MENU		
ACC		SENSOR CABLE LENGTH	TEMPERATURE							
	36	FLUID	PHYSICAL STATUS			-	GAS	S		
	37	MINIMUM FLOW	NORMAL	MAXIMUM	-	-	-	-		
S	38	MINIMUM PRESSURE	NORMAL	MAXIMUM	-	-	-	-		
10N.	39	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	-	-	-	-		
CONDITIONS	40	PROJECT FLOW		•						
301	41	DESIGN PRESSURE		Pa	(	C				
	42	DENSITY @ OPERATING C	CONDITION			,	kg/m³			
OPERATING	43	VISCOSITY @ OPERATING	CONDITION			(	Ср			
'ER,	44	FLUID CONDUCTIVITY				μ	S/cm²			
OF	45	INCRUSTATION					NO			
	47	MAXIMUM LOSS OF LOAD	ALLOWED				-			
	48									
	49	MANUFACTURER				TESTO (	OR SIMILAR			
	50	MODEL								
							RING STANDARD CD FRONT 100%RH 15070°C 22°C YES - 100pA NERAL NOTES 3) YES INGUAGE OPERATING MENU METERS GAS			









TITLE

# TRANSMITTERS

SHEET: 55 de 56 REV.:

KAI	NOWITTERS							2			
1	INSTRUMENT TAG NUMBE	:R				MIT / TIT-A1029-001					
2	SERVIÇE				HUMIDITY AND TEMPERATURE - ROOM A1029						
3	<u> </u>				7A-I-0-7-03						
d 4	PIPE LINE	IBER	-			-					
? ├─	EQUIPMENT MATERIAL / P		FRONT PL	ATE STAINLE	SS STEEL, HOUSIN	IG PLASTIC					
6	+				CLASSIFIED						
7					IP-65						
8						(SEE GEN	IERAL NOTES 6)				
9						(					
9		JMIDITY AND TE	MPERA	TURE	12mi	n					
10	TUBE MATERIAL					STAIN	ILESS STEEL				
1	1 COATING MATERIAL					MANUFACT	URING STANDARD				
11	2 ELECTRODE MATERIAL						316SS				
	3 GROUNDING RING MATER	RIAL				YES (SEE GI	ENERAL NOTES	7)			
14						•	ANUFATURING STA				
-	5 LOCAL TEMPERATURE						22℃				
-	6 FLANGE FACE FINISH						-				
17							POSTS IDENTIFICAT	TES			
_	B MOUNTING		<u> </u>		THE WALL						
-	9 POWER SUPPLY					24 Vcc - 2 WIRE					
20							4 - 20 mA - 2 WIRE (500 ohms @ 24 Vcc)				
	1 COMMUNICATION PROTO	COL			-						
22	2 PRECISION			± 0.3% F.E.							
2:	3 REPEATABILITY			MANUFACT	URING STANDARD						
<b>⊹</b> ⊢	4 ELECTRICAL CONNECTION						URING STANDARD				
2	5 LOCAL INDICATION						LCD FRONT				
2	4 RANGE HUMIDITY						-90%RH				
2	5 CALIBRATED RANGE HUM	IIDITY				30	0-60%RH				
20	6 RANGE TEMPERATURE				-20 to 70°C						
2	7 CALIBRATED RANGE TEM	PERATURE			22°C						
-	B KEYBOARD FOR LOCAL C		1				YES				
29	9 CALIBRATED RANGE PRE	SSURE					_				
30						0 to 100pA					
3					YES (SEE GENERAL NOTES 3)						
3					YES						
낊ㅡ	3 DISPLAY				3 LINE LCD WITH MULTI LINGUAGE OPERATING MENU						
34	<b>+</b>	TEMPERATURE			10 METERS						
36		PHYSICAL STA	ATUS		-		T	AS			
37	_	NORMAL		MAXIMUM	-	-	-	-			
38	8 MINIMUM PRESSURE	NORMAL		MAXIMUM	-	-	-	-			
39 40		NORMAL		MAXIMUM	-	-	-	-			
40	PROJECT FLOW					•	1	•			
4	DESIGN PRESSURE DESIGN TEMPERATURE					Pa		℃			
42	DENSITY @ OPERATING C	DENSITY @ OPERATING CONDITION					kg/m³				
4:	3 VISCOSITY @ OPERATING		Cp								
4:	4 FLUID CONDUCTIVITY						μS/cm²				
4	5 INCRUSTATION						NO				
4	7 MAXIMUM LOSS OF LOAD	ALLOWED					-				
48	3										
49	9 MANUFACTURER					TESTO	OR SIMILAR				
50	-										
	•				•						









TITLE

# **TRANSMITTERS**

SHEET: 56 de 56 REV.:

									2		
	1	INSTRUMENT TAG NUMB	ER				MIT / TI	T-A1040-001			
	2	SERVIÇE				HUM	HUMIDITY AND TEMPERATURE - ROOM A1040				
	3	P&ID					7A-I-0-7-03				
AL	4	PIPE LINE	EQUIPMENT	NUME	BER	-					
GENERAL	5	EQUIPMENT MATERIAL /	PIPE			FRONT F	PLATE STAINLES	SS STEEL, HOUSING	G PLASTIC		
ЗEЛ	6	AREA CLASSIFICATION					NOT	CLASSIFIED			
	7	ENCLOSURE CLASSIFICA	TION					IP-65			
	8	CERTIFICATES					(SEE GEN	ERAL NOTES 6)			
	9										
	9	DIAMETER OF SENSOR H	HUMIDITY AND TEMP	PERAT	URE	12r	mm				
	10	TUBE MATERIAL					STAINI	ESS STEEL			
	11	COATING MATERIAL					MANUFACTU	IRING STANDARD			
۵	12	ELECTRODE MATERIAL					;	316SS			
METER	13	GROUNDING RING MATE	RIAL				YES (SEE GE	NERAL NOTES 7	")		
ME	14	CONNECTIONS				PRO		NUFATURING STAN			
	15	LOCAL TEMPERATURE				22℃					
	16	FLANGE FACE FINISH						-			
	17	ELECTRICAL CONNECTION			BACKPACK IN P	OSTS IDENTIFICATI	ES				
	18	MOUNTING					ON 7	THE WALL			
	19	POWER SUPPLY			24 Va	c - 2 WIRE					
	20	OUTPUT SIGNAL				4	4 - 20 mA - 2 WIR	E (500 ohms @ 24 V	(cc)		
۵	21	COMMUNICATION PROTO	DCOL			-					
HE	22	PRECISION				± 0.3% F.E.					
SMI	23	REPEATABILITY					MANUFACTURING STANDARD				
CONVERTER / TRANSMITTER	24	ELECTRICAL CONNECTION	DN				MANUFACTU	IRING STANDARD			
/TR	25	LOCAL INDICATION			YES, I	.CD FRONT					
ER.	24	RANGE HUMIDITY					0-	90%RH			
ER1	25	CALIBRATED RANGE HUI	MIDITY				30-60%RH				
NN	26	RANGE TEMPERATURE					-20 to 70°C				
S	27	CALIBRATED RANGE TEN	MPERATURE				22°C				
	28	KEYBOARD FOR LOCAL (	CONFIGURATION					YES			
	29	CALIBRATED RANGE PRE	ESSURE					-			
	30	RANGE OF PRESSURE					0 to 100pA				
ž	31	TAGGING				YES (SEE GENERAL NOTES 3)					
ESSORI ES	32	SURGE PROTECTOR				YES					
	33	DISPLAY				3 LINE LO	CD WITH MULTI	LINGUAGE OPERAT	TING MENU		
ACC	34	SENSOR CABLE LENGTH	TEMPERATURE				10	METERS			
	36	FLUID	PHYSICAL STATU	JS		-	-	GA	IS		
	37	MINIMUM FLOW	NORMAL		MAXIMUM	-	-	-	-		
ς	38	MINIMUM PRESSURE	NORMAL	1	MAXIMUM	-	-	-	-		
70/	39	MINIMUM TEMPERATURE	NORMAL	1	MAXIMUM	-	-	-	-		
OPERATING CONDITIONS	40	PROJECT FLOW									
00	41	DESIGN PRESSURE	TURE		Pa		℃				
NG	42	DENSITY @ OPERATING	DENSITY @ OPERATING CONDITION					kg/m³			
RATI	43	VISCOSITY @ OPERATIN				Ср					
PEF	44	FLUID CONDUCTIVITY	FLUID CONDUCTIVITY					JS/cm²			
0	45	INCRUSTATION						NO			
	47	MAXIMUM LOSS OF LOAD	ALLOWED					-			
	48										
	49	MANUFACTURER					TESTO	OR SIMILAR			
	50	MODEL									