







DOC NUMBER:

569-DB7A-AIC-711-006

CLIENT NUMBER:

PRD-AIC-DSH-077

CLIENT:

TAKEDA/BAXALTA

PROJECT:

BURITI EPCVM PROJECT

DRUG PRODUCT - BMS – DATA SHEET TEMPERATURE AND HUMIDITY TRANSMITTER

\vdash					
1	29OCT2021	ISSUE FOR CONSTRUCTION CONSIDERING COMMENTS	MAV	MAF	RSP
0	29JUL2021	ISSUE FOR CONSTRUCTION	JHA	MAF	RSP
Α	24MAR2021	60% DD ISSUE	JHA	MAF	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









CLIENT NR: PRD-AIC-DSH-077 NUMBER: 569-DB7A-AIC-711-006

TITLE

TEMPERATURE AND HUMIDITY TRANSMITTER

SHEET:

2 de 17 REV.:

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Revision	Α	В	0	1	2	3	Revision	Α	В	0	1	2	3	Revision	Α	В	0	1	2	1
Page							Page							Page						I
1	Х		Χ	Χ			26							51						I
2	Χ		Χ	Χ			27							52						
3	Χ		Χ	Χ			28							53						
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10	Х		Χ	Χ			35							60						
11	Х		Χ	Χ			36							61						
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13	Х		Χ	Χ			38							63						
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REVISION 0 NOTES:

- 1- UPDATE ACCORDING TO P&ID (HVAC AND PROCESS).
- 2- INSERTION OF PROCESS DATA.
- 3- INSERTION OF INSTRUMENT REFERENCE MODELS.

REVISION 1 NOTES:

1- CANCELLED TT/MT-AHU-7A-7-001, TT/MT-AHU-7A-7-002

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NUMBER: 569-DB7A-AIC-711-006 CLIENT NR: PRD-AIC-DSH-077

TITLE SHEET:

TEMPERATURE AND HUMIDITY TRANSMITTER

3 de 17
REV::

REFERENCE DOCUMENTS

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

GENERAL NOTES

- 1- The transmitters must have the following characteristics:
 - a) They must be electronic, intelligent and programmable, with the transmission of the signal in the same physical medium as the power supply:
 - b) Support the respective maximum static design pressures;
 - c) They must be capable of identifying internal failures;
 - d) Be capable of setting the value of the output signal, programmable in 0% or 100% of the range, in case of sensor element failure;
- 2- All transmitters must have enclosures, whose parts exposed to the atmosphere are resistant to environmental conditions, including those generated by the process condition.
- 3- All electronic or electrical components that are subject to fungal and moisture attacks must be tropicalized, i.e., treated with polyurethane coating or equivalent to inhibit this attack.
- 4- All transmitters must be provided with protection type certificates compatible with the respective area classification. If the enclosure requires certificates regarding type and degree of protection, both proofs must be explicit in the same certificate. The certificates must be issued by INMETRO or an accredited body.
- 5- All transmitters must have a calibration certificate with traceability according to ISO 9000.
- 6- The identification plates must be made of AISI 304 stainless steel permanently attached to the instruments with a tag and serial number. The serial number of the instrument, when possible, can be recorded on the body itself.
- 7- All electronic instruments must be provided with software asset management feature, with zero adjustment function, span adjustment and other remote settings via digital data communication. The software must be supplied with the instruments and when necessary the connecting cables must also be provided.
- 8- The instrument display must be at least 2 lines with 5 characters on each line.









NUMBER: 569-DB7A-AIC-711-006 CLIENT NR: PRD-AIC-DSH-077

TITLE

SHEET:

4 de 17 REV.:

TEMPERATURE AND HUMIDITY TRANSMITTER

	1	INSTRUMENT TAG NUMBE	R			ΤΤ/ΜΤ-Δ	HU-7A-1-001	l '			
	2	SERVICE			DETLIBNI H		IPERATURE AIR IN	THE DUCT			
	3	P&ID			TKE TOTAL T		M-0-5-21	THE DOOT			
7	4	PIPE LINE	EQUIPMENT N	IIMDED	RETURN I		<u>vr-u-3-2 т</u> АНИ-	7A 1			
∃RA	5	EQUIPMENT MATERIAL / PA		OWBER	TAL FORTIVE	3001	Al 10-	7A-1			
GENERAL		AREA CLASSIFICATION			NOT CLASSIFIED						
O	6	ENCLOSURE CLASSIFICAT	700								
	7	CERTIFICATES	1011		IP 65 (MİN.) CONF. NBR IEC 60529						
	8	CERTIFICATES			(SEE GENERAL NOTES 4)						
H	9	TYPE			MICROPROCESSED						
	10	MOUNTING									
	11						AL ELEMENT				
	_	BODY PRESSURE CLASS HOUSING MATERIAL			_		UFACTURER BONATE / ABS				
		POWER SUPPLY									
ER	_		OUANTITY		4 20 mA (500 c		c - 2 WIRE	IEICU IDADI E			
TIM			QUANTITY		4 - 20 mA (500 c		HART	IFIGURABLE			
TRANSMITTER		COMMUNICATION PROTOC	JUL								
TRA		REPEATABILITY					25% F.E				
	_		_		UFACTURER						
	_	CALIBRATION RANGE CALIBRATED RANGE			BY MANUFACTURER						
		ELECTRICAL CONNECTION		BY MANUFACTURER							
	\vdash		_								
H	_	DJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN TYPE			-		S / YES				
					RE AND HUMIDITY						
	\vdash	MOUNTING	[E	DV A A A A U II		DUCT	0040				
λ.		ELEMENT TYPE	ELEMENT MAT	ERIAL		BY MANUFACTURER SS316L 300 mm BY MANUFACTURE					
SENSOR		LENGTH (L)	DIAMETER		300	0~100%					
SE	-	HUMIDITY	14/5/								
		SENSOR CONNECTION TO			BY MANUFACTURER FLANGES FOR DUCT						
	31	CONNECTION TO THE PRO	CESS			FLANGE	S FOR DUCT				
	35	CONFIGURATOR CARLE					VEO				
숬	29	CONFIGURATOR CABLE					YES				
ACCESSORY	30						NO				
SES		FIXING FLANGE IN DUCT					YES				
ΑC	34	CABLE GLAND					YES				
	35	ELUD	DUVELCAL STATE		AID	[A.1				
S		FLUID	PHYSICAL STATE	MAXIMUM	AIR	15	AI.				
10/	43	MINIMUM TEMPERATURE			10	15	21	°C			
TIQ!	44	MINIMUM PRESSURE	NORMAL	MAXIMUM	20	80 0/ DU	250	Pa ov Du			
00	45	MINIMUM HUMIDITY	MAXIMUM HUN	ווטוויץ	30	%RH		%RH			
OPERATING CONDITIONS	46	VISCOSITY @ OPERATING					Cp kg/m³				
ATI	47	DENSITY @ OPERATING C	UNUTTUN		-		kg/m³				
PER.	48	SUSPENDED SOLIDS (%)					NO				
0	49	IVI.IVI. / Z / GP/GV	M.M. / Z / Cp/Cv				//				
\vdash	50	MANUEACTURER	CONTEMP OF CIVIL AF								
		MANUFACTURER			CONTEMP OR SIMILAR						
	52	MODEL	S501								









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SHEET: 5 de 17 REV.:

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	1	INSTRUMENT TAG NUMBER			TT/MT-AHU-7A-1-002						
ŀ	2	SERVICE			SUPPLY H	UMIDITY / TEM	PERATURE AIR IN	I THE DUCT			
ŀ	3	P&ID				7A-N	1-4-5-21				
√ Ի	4	PIPE LINE	EQUIPMENT	NUMBER	SUPPLY D	DUCT	AHU	I-7A-1			
GENERAL	5	EQUIPMENT MATERIAL / PI	PE		· ·						
3.EV	6	AREA CLASSIFICATION			NOT CLASSIFIED						
Ĭ ŀ		ENCLOSURE CLASSIFICAT	TON		IP 65 (MÍN.) CONF. NBR IEC 60529						
ŀ	8	CERTIFICATES			(SEE GENERAL NOTES 4)						
ŀ	9						•				
寸	10	TYPE				MICROP	ROCESSED				
ı	11	MOUNTING				INTEGRA	L ELEMENT				
ı	13	BODY PRESSURE CLASS				BY MANU	JFACTURER				
ŀ	14	HOUSING MATERIAL				POLYCARE	BONATE / ABS				
,	15	POWER SUPPLY				24 Vcc	- 2 WIRE				
I NAMED IN EN	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500 c	ohms @ 24 Vcc)	(2x) CO	NFIGURABLE			
	17	COMMUNICATION PROTOC	COL			Н	IART				
Ź	18	PRECISION				±0,2	5% F.E				
٤	19	REPEATABILITY				BY MANU	<i>JFACTURER</i>				
ı	20	CALIBRATION RANGE				BY MANU	<i>JFACTURER</i>				
ı	21	CALIBRATED RANGE			-						
ı	22	ELECTRICAL CONNECTION				BY MANUFACTURER					
ı	23	DJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN				YES	S/YES				
⊢	24	TYPE				TEMPERATUR	E AND HUMIDITY	,			
	33	MOUNTING				D	UCT				
	25	ELEMENT TYPE	ELEMENT MA	TERIAL	BY MANUF	ACTURER	S	SS316L			
	26	LENGTH (L)	DIAMETER		300	mm	BY MAN	IUFACTURER			
SENSON	27	HUMIDITY	•			0~	100%				
1	27	SENSOR CONNECTION TO	WELL			BY MANU	JFACTURER				
Ī	31	CONNECTION TO THE PRO	CESS		FLANGES FOR DUCT						
Ī	35										
	29	CONFIGURATOR CABLE			YES						
5	30	DISPLAY					NO				
3	32	FIXING FLANGE IN DUCT			YES						
ACCESSON 1	34	CABLE GLAND				,	YES				
۲	35										
		-	PHYSICAL STATE		AIR		Α	IR			
3	43	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	15	21	°C			
	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250	Pa			
5	45	MINIMUM HUMIDITY	MAXIMUM HU	JMIDITY	30	%RH	60	%RH			
	46	VISCOSITY @ OPERATING	CONDITION			(Ср				
	47	DENSITY @ OPERATING CO	ONDITION			ŀ	kg/m³				
۶ [48	SUSPENDED SOLIDS (%)					NO				
	49	M.M. / Z / Cp/Cv				/	′ /				
	50										
Т	51	1 MANUFACTURER			CONTEMP OR SIMILAR						
			52 MODEL				S501				









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SHEET: 6 de 17 REV.: 1

	1	INSTRUMENT TAG NUMBE	R		1	TT/N/T A	HU-7A-2-001	<u> </u>			
ŀ					RETURN HUMIDITY AIR IN THE DUCT						
ŀ	2	SERVICE			- K			JC I			
	-	P&ID	I SOLUBLISH TANK		557/15/		M-4-5-22				
RAI		PIPE LINE	EQUIPMENT NU	MBER	RETURN	DUCI	AHU	J-7A-2			
GENERAL		EQUIPMENT MATERIAL / PA	IPE		-						
GE		AREA CLASSIFICATION					LASSIFIED				
	7	ENCLOSURE CLASSIFICAT	TION		IP 65 (MÍN.) CONF. NBR IEC 60529						
	8	CERTIFICATES				(SEE GENE	ERAL NOTES 4)				
	9										
	10	TYPE				MICROP	PROCESSED				
	11	MOUNTING		INTEGRA	AL ELEMENT						
	13	BODY PRESSURE CLASS				BY MAN	UFACTURER				
	14	HOUSING MATERIAL				POLYCAR	BONATE / ABS				
œ	15	POWER SUPPLY				24 Vc	c - 2 WIRE				
TRANSMITTER	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500	ohms @ 24 Vcc,) (2x) CC	NFIGURABLE			
SMI	17	COMMUNICATION PROTOC	COL			ŀ	HART				
ΑN	18	PRECISION				±0,2	25% F.E				
H.	19	REPEATABILITY		BY MAN	UFACTURER						
ľ	20	CALIBRATION RANGE		BY MAN	UFACTURER						
ŀ	21	CALIBRATED RANGE									
	22	ELECTRICAL CONNECTION				BY MAN	UFACTURER				
ŀ		DJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN				YE	S/YES				
1	_	TYPE			+	TEMPERATUR	RE AND HUMIDIT	· · · · · · · · · · · · · · · · · · ·			
		MOUNTING			DUCT	·					
ŀ		ELEMENT TYPE ELEMENT MATERIAL		RIAL	BY MANU	FACTURER		SS316L			
SENSOR		LENGTH (L)	DIAMETER) mm		NUFACTURER			
SVE		HUMIDITY					~100%				
S		SENSOR CONNECTION TO	WELL				UFACTURER				
ŀ		CONNECTION TO THE PRO					S FOR DUCT				
ŀ	35	OGNINE OTTON TO THE THE	70200		1 13 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1						
		CONFIGURATOR CABLE					YES				
RΥ		DISPLAY			YES NO						
SSO		FIXING FLANGE IN DUCT					YES				
ACCESSORY	_	CABLE GLAND					YES				
AC		CABLE GLAND					11.5				
-	35 42	FLUID	PHYSICAL STATE		AIR	, I		AIR			
S		MINIMUM TEMPERATURE		MAXIMUM				1 -			
Įς.					10	15	21	°C 			
OPERATING CONDITION	_	MINIMUM PRESSURE	NORMAL MAXIMUM HUMI	MAXIMUM	20	80 % DU	250	Pa			
်္ဂ		MINIMUM HUMIDITY		ז ווע	30	%RH		0 %RH			
<u>မွ</u>	46	VISCOSITY @ OPERATING					Cp Isos Ima3				
AT!	47	DENSITY @ OPERATING C	UNDITION				kg/m³				
žΕR	48		SUSPENDED SOLIDS (%)				NO				
0F	49	M.M. / Z / Cp/Cv	/ /								
	50										
	51	MANUFACTURER	CONTEMP OR SIMILAR								
ļ	52	MODEL					S501				









TITLE

SHEET: 7 de 17 REV.:

TEMPERATURE AND HUMIDITY TRANSMITTER

								1			
	1	INSTRUMENT TAG NUMBE	R			TT/MT-A	AHU-7A-2-002				
	2	SERVICE			SUPPLY H	UMIDITY/TEN	MPERATURE AIR IN	THE DUCT			
	3	P&ID				7A-	-M-4-5-22				
ΑL	4	PIPE LINE	EQUIPMENT NUM	1BER	SUPPLY D	DUCT	AHU-	7A-2			
GENERAL	5	EQUIPMENT MATERIAL / P.	IPE .				-				
GE	6	AREA CLASSIFICATION			NOT CLASSIFIED						
	7	ENCLOSURE CLASSIFICAT	TON		,	P 65 (MÍN.) C	ONF. NBR IEC 60529)			
	8	CERTIFICATES				(SEE GEN	IERAL NOTES 4)				
	9					(02232					
	10	TYPE				MICRO	PROCESSED				
	11	MOUNTING				INTEGR	RAL ELEMENT				
	13	BODY PRESSURE CLASS				BY MAN	NUFACTURER				
	14	HOUSING MATERIAL				POLYCAR	RBONATE / ABS				
œ	15	POWER SUPPLY				24 Va	cc - 2 WIRE				
JE.	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500 d	ohms @ 24 Vcc	c) (2x) CON	IFIGURABLE			
IMS	17	COMMUNICATION PROTOC	COL				HART				
TRANSMITTER	18	PRECISION				±0,	,25% F.E				
TR	19	REPEATABILITY				BY MAN	NUFACTURER				
	20	CALIBRATION RANGE				BY MAN	NUFACTURER				
	21	CALIBRATED RANGE									
	22	ELECTRICAL CONNECTION	V			BY MAN	NUFACTURER				
	23	DJUSTABLE RANGE / AJ. L	OCAL ZERO AND SPAN	1		YE	ES / YES				
	24	TYPE				TEMPERATU	IRE AND HUMIDITY				
	33	MOUNTING					DUCT				
	25	ELEMENT TYPE	ELEMENT MATER	RIAL	BY MANUF	BY MANUFACTURER SS316L					
SOF	26	LENGTH (L)	DIAMETER		300	mm	BY MANU	JFACTURER			
SENSOR	27	HUMIDITY	<u>.</u>		0~100%						
S	27	SENSOR CONNECTION TO	WELL			BY MANUFACTURER					
	31	CONNECTION TO THE PRO	CESS			FLANGE	ES FOR DUCT				
	35										
`	29	CONFIGURATOR CABLE			YES						
OR	30	DISPLAY					NO				
SSE	32	FIXING FLANGE IN DUCT					YES				
ACCESSORY	34	CABLE GLAND					YES				
A	35										
	42	FLUID	PHYSICAL STATE		AIR		All	R			
SNC	43	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	15	21	°C			
JITIC	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250	Pa			
JNC	45	MINIMUM HUMIDITY	MAXIMUM HUMID	ITY	30	%RH	60	%RH			
OPERATING CONDITIONS	46	VISCOSITY @ OPERATING	CONDITION				Ср				
JNIL	47	DENSITY @ OPERATING C	ONDITION				kg/m³				
ERA.	48	SUSPENDED SOLIDS (%)					NO				
OPE	49	M.M. / Z / Cp/Cv			/						
	50										
	51	MANUFACTURER			CONTEMP OR SIMILAR						
	52	MODEL					S501				
1107		•			-	-					









TITLE

SHEET: 8 de 17 REV.:

								1		
	1	INSTRUMENT TAG NUMBE	R			TT/MT-A	AHU-7A-3-001			
	2	SERVICE			RETURN	HUMIDITY/TEN	MPERATURE AIR IN	THE DUCT		
	3	P&ID				7B-	-M-0-5-23			
4	4	PIPE LINE	EQUIPMENT NUI	MBER	RETURN	I DUCT	AHU-	7A-3		
GENERAL	5	EQUIPMENT MATERIAL / PI	 				-			
Ë		AREA CLASSIFICATION			NOT CLASSIFIED					
٦		ENCLOSURE CLASSIFICAT	TON				ONF. NBR IEC 60529			
ŀ	_	CERTIFICATES	1011				ERAL NOTES 4)			
ŀ	8	CERTIFICATES				(SEE GEN	ERAL NOTES 4)			
4	9	T. (25				1,4000	2222222			
ŀ		TYPE					PROCESSED			
		MOUNTING					RAL ELEMENT			
	13	BODY PRESSURE CLASS				BY MAN	IUFACTURER			
		HOUSING MATERIAL				POLYCAR	RBONATE / ABS			
۱ ۲		POWER SUPPLY				24 Vo	cc - 2 WIRE			
I NAIVSIVII I EN	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500	ohms @ 24 Vcc	(2x) CON	FIGURABLE		
	17	COMMUNICATION PROTOC	COL				HART			
Ś	18	PRECISION				±0,	.25% F.E			
ξ	19	REPEATABILITY				BY MAN	IUFACTURER			
ľ	20	CALIBRATION RANGE				BY MAN	IUFACTURER			
ı	21	CALIBRATED RANGE			150000000000000000000000000000000000000					
_ F	22	ELECTRICAL CONNECTION	I			BY MAN	IUFACTURER			
ŀ		DJUSTABLE RANGE / AJ. L	OCAL ZERO AND SPA	V		YE	S/YES			
		TYPE					RE AND HUMIDITY			
		MOUNTING					DUCT			
ŀ		ELEMENT TYPE	BV MANI	JFACTURER		S316L				
۲		LENGTH (L)	ELEMENT MATE	WAL.		0 mm		JFACTURER		
SENSOR		HUMIDITY	DIAMETER		30		0~100%	HOTOKEK		
0		SENSOR CONNECTION TO	WELL							
ŀ					BY MANUFACTURER FLANGES FOR DUCT					
ŀ	31	CONNECTION TO THE PRO	CESS		FLAINGES FUR DUCT					
	35				YES					
ا ج	_	CONFIGURATOR CABLE								
		DISPLAY			NO					
ń		FIXING FLANGE IN DUCT			YES					
ACCESSORY	34	CABLE GLAND					YES			
`	35									
إ		FLUID	PHYSICAL STATE		All	₹	All	R		
3	43	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	15	21	°C		
OPERATING CONDITIONS	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250	Pa		
	45	MINIMUM HUMIDITY	MAXIMUM HUMII	DITY	30	%RH	60	%RH		
٥	46	VISCOSITY @ OPERATING	CONDITION				Ср			
Ĭ	47	DENSITY @ OPERATING C	ONDITION				kg/m³			
ž	48	SUSPENDED SOLIDS (%)					NO			
7	49	M.M. / Z / Cp/Cv					//			
٦ 	50									
7	51	MANUFACTURER			CONTEMP OR SIMILAR					
ŀ	52	MODEL	S501							
_	ES:	!			3301					









TITLE

SHEET:

9 de 17 REV.:

1

	1	INSTRUMENT TAG NUMBE	 R		TT/MT-AHU-7A-3-002					
	2	SERVICE			RETURN F		IPERATURE AIR I	N THE DUCT		
	3	P&ID					M-4-5-23			
7	_	PIPE LINE	EQUIPMENT NU	 IMBFR	SUPPLY			U-7A-3		
GENERAL		EQUIPMENT MATERIAL / P.					-			
EN	_	AREA CLASSIFICATION	·· <u>-</u>		NOT CLASSIFIED					
٥	7	ENCLOSURE CLASSIFICAT	TION				NF. NBR IEC 605	29		
	8	CERTIFICATES			-		ERAL NOTES 4)			
	9	02.11.110.1120			_	(022 02:12				
-	·	TYPE			+	MICROF	PROCESSED			
		MOUNTING			_		AL ELEMENT			
		BODY PRESSURE CLASS			UFACTURER					
	_	HOUSING MATERIAL			_		BONATE / ABS			
~		POWER SUPPLY			+		c - 2 WIRE			
TRANSMITTER		OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500	ohms @ 24 Vcc		NFIGURABLE		
MI		COMMUNICATION PROTOC	COL		<u> </u>	-	HART			
ANS	18	PRECISION			-	±0,2	25% F.E			
צ	19	REPEATABILITY				BY MAN	UFACTURER			
	20	CALIBRATION RANGE		BY MAN	UFACTURER					
	21	CALIBRATED RANGE								
	22	ELECTRICAL CONNECTION				BY MAN	UFACTURER			
	23	DJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN				YE	S/YES			
	24	TYPE			1	TEMPERATUR	RE AND HUMIDIT	Y		
	33	MOUNTING	1		DUCT					
	25	ELEMENT TYPE	ELEMENT MATE	- ERIAL	BY MANU	FACTURER		SS316L		
SENSOR	26	LENGTH (L)	DIAMETER		300) mm	BY MAI	NUFACTURER		
EN	27	HUMIDITY			1	0-	~100%			
^	27	SENSOR CONNECTION TO	WELL			BY MAN	UFACTURER			
	31	CONNECTION TO THE PRO	CESS		FLANGES FOR DUCT					
	35									
Y	29	CONFIGURATOR CABLE			YES					
5	30	DISPLAY					NO			
N V	32	FIXING FLANGE IN DUCT			YES					
ACCESSORY	34	CABLE GLAND					YES			
1	35									
S		FLUID	PHYSICAL STATE		AIR		,	AIR		
000	43	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	15	21	°C		
	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250	Pa		
ΝÖ	45	MINIMUM HUMIDITY	MAXIMUM HUMI	IDITY	30	%RH		0 %RH		
၁၂	46	VISCOSITY @ OPERATING					Ср			
OPERATING CONDITION	47	DENSITY @ OPERATING C	ONDITION				kg/m³			
ER/	48	SUSPENDED SOLIDS (%)					NO			
00	49	M.M. / Z / Cp/Cv			//					
	50									
		MANUFACTURER	CONTEMP OR SIMILAR							
	52	MODEL			S501					









TITLE

10 de 17 REV.:

SHEET:

TEMPERATURE AND HUMIDITY TRANSMITTER

								1			
	1	INSTRUMENT TAG NUMBER			TT/MT-AHU-7A-4-001						
	2	SERVICE			RETURN HUMIDITY AIR IN THE DUCT						
	3	P&ID				7A	-M-4-5-24				
AL	4	PIPE LINE	EQUIPMENT NU	JMBER	RETURN D	DUCT	AHU-7	A-4			
IER	5	EQUIPMENT MATERIAL / PIPE					-				
GENERAL	6	AREA CLASSIFICATION			NOT CLASSIFIED						
Ĭ	7	ENCLOSURE CLASSIFICATION	1		1.	P 65 (MÍN.) C	ONF. NBR IEC 60529				
	8	CERTIFICATES				(SEE GEN	IERAL NOTES 4)				
l	9						•				
	10	TYPE				MICRO	PROCESSED				
l	11	MOUNTING				INTEGR	RAL ELEMENT				
	13	BODY PRESSURE CLASS				BY MAI	NUFACTURER				
lt	14	HOUSING MATERIAL				POLYCAI	RBONATE / ABS				
or I	15	POWER SUPPLY				24 V	cc - 2 WIRE				
191	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500 o	hms @ 24 Vc	c) (2x) CONF	FIGURABLE			
IMS	17	COMMUNICATION PROTOCOL					HART				
TRANSMITTER	18	PRECISION				±0	,25% F.E				
	19	REPEATABILITY		BY MAI	NUFACTURER						
lt	20	CALIBRATION RANGE		BY MANUFACTURER							
	21	CALIBRATED RANGE									
lt	22	ELECTRICAL CONNECTION				BY MAI	NUFACTURER				
	23	DJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN				Yı	ES / YES				
	24	TYPE				TEMPERATU	IRE AND HUMIDITY				
	33	MOUNTING					DUCT				
	25	ELEMENT TYPE	ELEMENT MATE	BY MANUF.	ACTURER	SS	316L				
SENSOR	26	LENGTH (L)	DIAMETER		300	300 mm BY MANUFACTURER					
ËN	27	HUMIDITY			0~100%						
ا » ا	27	SENSOR CONNECTION TO WE	ELL			BY MAI	NUFACTURER				
	31	CONNECTION TO THE PROCES	SS		FLANGES FOR DUCT						
	35										
>	29	CONFIGURATOR CABLE					YES				
9 S	30	DISPLAY					NO				
SSE	32	FIXING FLANGE IN DUCT					YES				
ACCESSORY	34	CABLE GLAND					YES				
	35										
l L	42	FLUID PH	YSICAL STATE		AIR		AIR	}			
SVC	43	MINIMUM TEMPERATURE NO	RMAL	MAXIMUM	10	15	21	°C			
) E	44	MINIMUM PRESSURE NO	RMAL	MAXIMUM		80	250	Pa			
ONE	45	MINIMUM HUMIDITY	MAXIMUM HUM	IIDITY	30	%RH	60 9	%RH			
0 0	46	VISCOSITY @ OPERATING CO.	NDITION				Ср				
NIL	47	DENSITY @ OPERATING CONL	DITION				kg/m³				
OPERATING CONDITIONS		SUSPENDED SOLIDS (%)					NO				
OP	49	M.M. / Z / Cp/Cv			//						
	50										
	51 MANUFACTURER			CONTEMP OR SIMILAR							
	52	MODEL			S501						









NUMBER: 569-DB7A-AIC-711-006 CLIENT NR: PRD-AIC-DSH-077

TITLE

SHEET: 11 de 1

TEMPERATURE AND HUMIDITY TRANSMITTER

11 de 17 REV.:

								1			
	1	INSTRUMENT TAG NUMBE	R		TT/MT-AHU-7A-4-002						
	2	SERVICE			RETURN HUMIDITY / TEMPERATURE AIR IN THE DUCT						
	3	P&ID				7A	-M-4-5-24				
SAL	4	PIPE LINE	EQUIPMENT NU	JMBER	SUPPLY I	DUCT	AHU-	7A-4			
GENERAL	5	EQUIPMENT MATERIAL / P.	IPE		-						
GE	6	AREA CLASSIFICATION			NOT CLASSIFIED						
	7	ENCLOSURE CLASSIFICAT	TON			IP 65 (MÍN.) C	ONF. NBR IEC 60529)			
	8	CERTIFICATES				(SEE GEN	IERAL NOTES 4)				
	9										
	10	TYPE			MICROPROCESSED						
	11	MOUNTING			INTEGRAL ELEMENT						
	13	BODY PRESSURE CLASS			BY MANUFACTURER						
	14	HOUSING MATERIAL				POLYCA	RBONATE / ABS				
æ	15	POWER SUPPLY				24 V	cc - 2 WIRE				
1	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500 d	ohms @ 24 Vo	c) (2x) CON	IFIGURABLE			
SMI	17	COMMUNICATION PROTOC	COL				HART				
TRANSMITTER	18	PRECISION				±0	,25% F.E				
¥	19	REPEATABILITY				BY MAI	NUFACTURER				
	20	CALIBRATION RANGE			BY MANUFACTURER						
	21	CALIBRATED RANGE									
	22	ELECTRICAL CONNECTION		BY MAI	NUFACTURER						
	23	DJUSTABLE RANGE / AJ. L	OCAL ZERO AND SPA	AN		YI	ES / YES				
	24	TYPE		TEMPERATU	IRE AND HUMIDITY						
	33	MOUNTING			DUCT						
~	25	ELEMENT TYPE	ELEMENT MATE	ERIAL	BY MANUF	ACTURER	S	S316L			
SOF	26	LENGTH (L)	DIAMETER		300 mm BY MANUFACTURER						
SENSOR	27	HUMIDITY				0~100%					
0)	27	SENSOR CONNECTION TO	WELL		BY MANUFACTURER						
	31	CONNECTION TO THE PRO	CESS		FLANGES FOR DUCT						
	35										
>	29	CONFIGURATOR CABLE					YES				
OR	30	DISPLAY					NO				
ESS	32	FIXING FLANGE IN DUCT					YES				
ACCESSORY	34	CABLE GLAND					YES				
_	35										
_ ا	42	FLUID	PHYSICAL STATE		AIR		AI	R			
ONS	43		NORMAL	MAXIMUM	10	15	21	°C			
Ę	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250	Pa			
JNO.	45	MINIMUM HUMIDITY	MAXIMUM HUM	IDITY	30	%RH	60	%RH			
0 0	46	VISCOSITY @ OPERATING	CONDITION				Ср				
OPERATING CONDITIONS	47	DENSITY @ OPERATING C	ONDITION				kg/m³				
ERA		SUSPENDED SOLIDS (%)					NO				
OP	49	M.M. / Z / Cp/Cv			/						
	50										
	51	MANUFACTURER	ANUFACTURER			CONTEMP OR SIMILAR					
		MODEL			S501						









TITLE

SHEET:

TEMPERATURE AND HUMIDITY TRANSMITTER

12 de 17 REV.:

					_			1		
	1	INSTRUMENT TAG NUMBEI	TT/MT-AHU-7A-5-001							
	2	SERVICE	RI	TURN HUMIC	OITY AIR IN THE DU	CT				
	3	P&ID			7A-M-4-5-25					
ΑŁ	4	PIPE LINE	EQUIPMENT NUN	/BER	RETURN I	DUCT	AHU-	-7A-5		
JER	5	EQUIPMENT MATERIAL / PIPE					-			
GENERAL	6	AREA CLASSIFICATION		NOT	CLASSIFIED					
	7	ENCLOSURE CLASSIFICAT		P 65 (MÍN.) C	ONF. NBR IEC 60529	9				
	8	CERTIFICATES				(SEE GEN	ERAL NOTES 4)			
	9				(522 52 32 35 7)					
	10	TYPE		MICRO	PROCESSED					
	11	MOUNTING		INTEGR	RAL ELEMENT					
	13	BODY PRESSURE CLASS		BY MAN	IUFACTURER					
	14	HOUSING MATERIAL				POLYCAR	RBONATE / ABS			
٣	15	POWER SUPPLY				24 Vo	cc - 2 WIRE			
7E/		OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500 d	ohms @ 24 Vcc	c) (2x) CON	NFIGURABLE		
LIMS	17	COMMUNICATION PROTOC	COL				HART			
TRANSMITTER	18	PRECISION				±0	.25% F.E			
T.R.	19	REPEATABILITY				BY MAN	IUFACTURER			
	20	CALIBRATION RANGE				BY MAN	IUFACTURER			
	21	CALIBRATED RANGE								
	22	ELECTRICAL CONNECTION	I		BY MANUFACTURER					
	23	DJUSTABLE RANGE / AJ. LO	OCAL ZERO AND SPAN	V	YES / YES					
	24	TYPE			TEMPERATURE AND HUMIDITY					
	33	MOUNTING			DUCT					
	25	ELEMENT TYPE	ELEMENT MATER	RIAL	BY MANUF	ACTURER	S	S316L		
SENSOR	26	LENGTH (L)	DIAMETER		300	mm	BY MAN	UFACTURER		
ENS	27	HUMIDITY			0~100%					
S	27	SENSOR CONNECTION TO	WELL		BY MANUFACTURER					
	31	CONNECTION TO THE PRO	CESS		FLANGES FOR DUCT					
	35									
$\overline{}$	29	CONFIGURATOR CABLE			YES					
OR)	30	DISPLAY			NO					
SS	32	FIXING FLANGE IN DUCT			YES					
ACCESSORY	34	CABLE GLAND			YES					
Ā	35									
	42	FLUID	PHYSICAL STATE		AIR		Al	'R		
SNC	43	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	15	21	°C		
)//	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250	Pa		
DNC	45	MINIMUM HUMIDITY	MAXIMUM HUMIE	DITY	30	%RH	60	%RH		
300	46	VISCOSITY @ OPERATING CONDITION			Ср					
OPERATING CONDITIONS	47	DENSITY @ OPERATING CONDITION			kg/m³					
.RA	48	SUSPENDED SOLIDS (%)					NO			
OPE	49	M.M. / Z / Cp/Cv					//			
_	50									
	51	MANUFACTURER				CONTEM	P OR SIMILAR			
	52	MODEL	S501							









TITLE

SHEET: 13 de 17 REV.:

	1 INSTRUMENT TAG NUMBER				TT/MT-AHU-7A-5-002					
	2				1	RETURN HUMIDITY AIR IN THE DUCT				
	3				1		1-4-5-25			
7	_				SUPPLY			J-7A-5		
GENERAL		EQUIPMENT MATERIAL / PI			33,72	200,	-			
EN						NOT C	ASSIFIED			
o	7						NF. NBR IEC 6052	20		
	8						RAL NOTES 4)			
	9	CERTIFICATES				(SEE GENE	TVAL TVOTES 4)			
-	_	TYPE				MICROP	ROCESSED			
	-	MOUNTING			L ELEMENT					
							JFACTURER			
	_	3 BODY PRESSURE CLASS					BONATE / ABS			
		4 HOUSING MATERIAL 5 POWER SUPPLY					: - 2 WIRE			
TRANSMITTER		OUTPUT SIGNAL	QUANTITY		4 - 20 m4 (50)	0 ohms @ 24 Vcc)		NFIGURABLE		
i N		COMMUNICATION PROTOC			7 20 IIIA (300		IART	IOOI WADEL		
NS		PRECISION	, <u>o</u> _		+		5% F.E			
\$		REPEATABILITY			+		JFACTURER			
		CALIBRATION RANGE					JFACTURER			
		CALIBRATED RANGE				BT WANC	MACTORER			
		ELECTRICAL CONNECTION	1		BY MANUFACTURER					
		DJUSTABLE RANGE / AJ. L		Λ/	YES / YES					
	_	TYPE	JUAL ZENO AND SPA		TEMPERATURE AND HUMIDITY					
					DUCT					
		MOUNTING ELEMENT TYPE ELEMENT MATERIAL			DV MANU	UFACTURER		SS316L		
צ			DIAMETER	KIAL		00 mm		NUFACTURER		
SENSOR		LENGTH (L) HUMIDITY	DIAMETER		30		100%	VUFACTURER		
SE		SENSOR CONNECTION TO	WELL		_		JFACTURER			
					FLANGES FOR DUCT					
	31 35	CONNECTION TO THE PROCESS				. 2 2207 5 (1200)				
		CONFIGURATOR CARLE			YES					
'n		CONFIGURATOR CABLE				NO NO				
200		DISPLAY			YES					
ACCESSORY	_	FIXING FLANGE IN DUCT CABLE GLAND				YES				
A C							123			
_	35 42	FLUID	PHYSICAL STATE		Al	_R T		AIR		
S		MINIMUM TEMPERATURE		MAXIMUM	10	15	21			
0		MINIMUM PRESSURE	NORMAL	MAXIMUM	10	80	250	Pa		
		MINIMUM HUMIDITY	MAXIMUM HUMII	_!	2	0 %RH) %RH		
Õ S	46	VISCOSITY @ OPERATING CONDITION DENSITY @ OPERATING CONDITION SUSPENDED SOLIDS (%)			Cp kg/m³					
NG.	47									
OPERATING CONDITION	48						NO			
PEF	49	M.M. / Z / Cp/Cv			/					
ō	49 50	M.M. / 2 / Cp/CV			+	/	/			
		MANUFACTURER			CONTEMP OF SIMILAR					
	52	MODEL			+	CONTEMP OR SIMILAR S501				
_	ES:	MODEL					500 I			









TITLE

SHEET:

TEMPERATURE AND HUMIDITY TRANSMITTER

14 de 17 REV.:

								1		
	1	INSTRUMENT TAG NUMBE	TT/MT-AHU-7A-6-001							
	2	SERVICE	RETURN I	HUMIDITY / TEM	IPERATURE AIR IN	THE DUCT				
	3	P&ID	7A-M-4-5-26							
'AF	4	PIPE LINE EQUIPMENT NUMBER			RETURN	RETURN DUCT AHU-7A-6				
GENERAL	5	EQUIPMENT MATERIAL / PI	IPE .			<u>.</u>	=			
GEI	6	AREA CLASSIFICATION				NOT C	LASSIFIED			
	7	ENCLOSURE CLASSIFICAT	TON			IP 65 (MÍN.) CO	NF. NBR IEC 60529	1		
	8	CERTIFICATES				(SEE GENE	ERAL NOTES 4)			
	9									
	10	TYPE				MICROF	PROCESSED			
	11	MOUNTING				INTEGR	AL ELEMENT			
	13	BODY PRESSURE CLASS				BY MAN	UFACTURER			
	14	HOUSING MATERIAL				POLYCAR	BONATE / ABS			
œ	15	POWER SUPPLY				24 Vc	c - 2 WIRE			
TTE	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500	ohms @ 24 Vcc) (2x) CON	IFIGURABLE		
SMI	17	COMMUNICATION PROTOC	COL			ŀ	HART			
TRANSMITTER	18	PRECISION				±0,2	25% F.E			
TR	19	REPEATABILITY				BY MAN	UFACTURER			
	20	CALIBRATION RANGE				BY MAN	UFACTURER			
	21	CALIBRATED RANGE			1					
	22	ELECTRICAL CONNECTION	I		BY MANUFACTURER					
	23	DJUSTABLE RANGE / AJ. L	OCAL ZERO AND SPA	AN	YES / YES					
	24	TYPE			TEMPERATURE AND HUMIDITY					
	33	MOUNTING				DUCT				
•	25	ELEMENT TYPE	ELEMENT MATE	ERIAL	BY MANUFACTURER SS316L					
SENSOR	26	LENGTH (L)	DIAMETER		300 mm BY MANUFACTURER					
EN	27	HUMIDITY	•			0~100%				
S	27	SENSOR CONNECTION TO	WELL		BY MANUFACTURER					
	31	CONNECTION TO THE PRO	CESS			FLANGES FOR DUCT				
	35									
~	29	CONFIGURATOR CABLE			YES					
OR	30	DISPLAY			NO					
ACCESSORY	32	FIXING FLANGE IN DUCT			YES					
CC	34	CABLE GLAND					YES			
٧	35									
	42	FLUID	PHYSICAL STATE		AIF	?	Ali	R		
SNC	43	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	15	21	°C		
JTIC	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250	Pa		
ONE	45	MINIMUM HUMIDITY MAXIMUM HUMIDITY		30	%RH	60	%RH			
OPERATING CONDITIONS	46	VISCOSITY @ OPERATING CONDITION			Ср					
ΝĹ	47	DENSITY @ OPERATING CONDITION			kg/m³					
∃RA	48	SUSPENDED SOLIDS (%)			NO					
OPE	49	M.M. / Z / Cp/Cv			/					
	50									
	51	MANUFACTURER				CONTEMP OR SIMILAR				
	52	MODEL					S501			









S501

PRD-AIC-DSH-077 NUMBER: 569-DB7A-AIC-711-006 CLIENT NR:

TITLE

15 de 17 RFV:

TEMPERATURE AND HUMIDITY TRANSMITTER

INSTRUMENT TAG NUMBER TT/MT-AHU-7A-6-002 SERVICE RETURN HUMIDITY / TEMPERATURE AIR IN THE DUCT 2 P&ID 7A-M-4-5-26 3 **EQUIPMENT NUMBER** PIPE LINE SUPPLY DUCT AHU-7A-6 EQUIPMENT MATERIAL / PIPE 5 AREA CLASSIFICATION NOT CLASSIFIED 6 ENCLOSURE CLASSIFICATION IP 65 (MÍN.) CONF. NBR IEC 60529 CERTIFICATES (SEE GENERAL NOTES 4) 8 TYPE MICROPROCESSED 10 MOUNTING INTEGRAL ELEMENT 11 BODY PRESSURE CLASS BY MANUFACTURER HOUSING MATERIAL POLYCARBONATE / ABS POWER SUPPLY 24 Vcc - 2 WIRE 15 **TRANSMITTER** QUANTITY (2x) CONFIGURABLE 16 **OUTPUT SIGNAL** 4 - 20 mA (500 ohms @ 24 Vcc) COMMUNICATION PROTOCOL 17 HART PRECISION ±0,25% F.E 18 REPEATABILITY BY MANUFACTURER 19 CALIBRATION RANGE BY MANUFACTURER 20 CALIBRATED RANGE **ELECTRICAL CONNECTION** BY MANUFACTURER DJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN YES / YES 23 24 TYPE TEMPERATURE AND HUMIDITY MOUNTING 33 25 ELEMENT TYPE ELEMENT MATERIAL BY MANUFACTURER SS316I 26 LENGTH (L) DIAMETER 300 mm BY MANUFACTURER HUMIDITY 27 0~100% SENSOR CONNECTION TO WELL BY MANUFACTURER 27 CONNECTION TO THE PROCESS FLANGES FOR DUCT 35 CONFIGURATOR CABLE YES 29 30 DISPLAY NO FIXING FLANGE IN DUCT YES 32 CABLE GLAND 34 YES 35 PHYSICAL STATE AIR 42 FLUID AIR OPERATING CONDITIONS 43 MINIMUM TEMPERATURE NORMAL MAXIMUM 15 21 °C MAXIMUM 44 MINIMUM PRESSURE NORMAL 80 250 Pa MAXIMUM HUMIDITY 30 %RH 60 %RH 45 MINIMUM HUMIDITY VISCOSITY @ OPERATING CONDITION Ср DENSITY @ OPERATING CONDITION kg/m³ 47 SUSPENDED SOLIDS (%) NO 48 M.M. /Z/Cp/Cv 49 .../.../... MANUFACTURER CONTEMP OR SIMILAR

NOTES:

MODEL









TITLE

SHEET:

TEMPERATURE AND HUMIDITY TRANSMITTER

16 de 17 REV.:

									1	
	1	INSTRUMENT TAG NUMBER			TT/MT-EF-7A-6A-001					
AL	2	SERVICE			RETURN I	RETURN HUMIDITY / TEMPERATURE AIR IN THE DUCT				
	3	P&ID			7A-M-4-5-26					
	4	PIPE LINE	EQUIPMENT NUM	1BER	SUPPLY	DUCT		EF-7A-6	iA	
GENERAL	5	EQUIPMENT MATERIAL / P.	IPE .				-			
GEI	6	AREA CLASSIFICATION				NOT	CLASSIFIED)		
	7	ENCLOSURE CLASSIFICAT	TON			IP 65 (MÍN.) C	ONF. NBR IE	EC 60529		
	8	CERTIFICATES				(SEE GEN	IERAL NOTE	ES 4)		
	9									
	10	TYPE		MICRO	PROCESSE	:D				
	11					INTEGR	RAL ELEMEN	VT		
	13	BODY PRESSURE CLASS				BY MAN	IUFACTURE	ER .		
	14	HOUSING MATERIAL				POLYCAR	RBONATE / A	ABS		
œ	15	POWER SUPPLY				24 V	cc - 2 WIRE			
ΙE	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500	ohms @ 24 Vc	c)	(2x) CONFIG	GURABLE	
SMIT	17	COMMUNICATION PROTOC	COL				HART			
TRANSMITTER	18	PRECISION				±0	,25% F.E			
	19	REPEATABILITY				BY MAN	IUFACTURE	ER .		
	20	CALIBRATION RANGE				BY MAN	IUFACTURE	R		
	21	CALIBRATED RANGE								
	22	ELECTRICAL CONNECTION	V		BY MANUFACTURER					
	23	DJUSTABLE RANGE / AJ. L	OCAL ZERO AND SPAN	I	YES / YES					
	24	TYPE			TEMPERATURE AND HUMIDITY					
	33	MOUNTING				DUCT				
	25	ELEMENT TYPE ELEMENT MATERIAL			BY MANUFACTURER SS316L					
SENSOR	26	LENGTH (L)	DIAMETER		30	0 mm		BY MANUF	ACTURER	
ENS		HUMIDITY				(0~100%			
S	-	SENSOR CONNECTION TO	WELL		BY MANUFACTURER					
	31	CONNECTION TO THE PRO	OCESS		FLANGES FOR DUCT					
	35									
	29	CONFIGURATOR CABLE			YES					
ЭRУ	30	DISPLAY			NO					
SS		FIXING FLANGE IN DUCT				YES				
ACCESSORY	34	CABLE GLAND			YES					
AC	35									
	42	FLUID	PHYSICAL STATE		AIF	?		AIR		
NS	43	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	15	21		°C	
OLL	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250)	Pa	
JVD	45	MINIMUM HUMIDITY	MAXIMUM HUMID	DITY	30	%RH		60 %	RH	
CC	-		VISCOSITY @ OPERATING CONDITION			Ср				
OPERATING CONDITIONS	47	DENSITY @ OPERATING CONDITION			kg/m³					
RAI	48	SUSPENDED SOLIDS (%)					NO			
)PE	49	M.M. / Z / Cp/Cv				/				
٥	50									
	51	MANUFACTURER				CONTEMP OR SIMILAR				
	\vdash	MODEL					S501			
			_!							









TITLE

TEMPERATURE AND HUMIDITY TRANSMITTER

SHEET: 17 de 17 REV.:

								1		
	1	INSTRUMENT TAG NUMBE		TT/MT-DOAS-7A-001						
GENERAL	2	SERVICE			RI	RETURN HUMIDITY AIR IN THE DUCT				
	3	P&ID			7A-M-4-5-28					
	4	PIPE LINE	EQUIPMENT NU	JMBER	SUPPLY I	DUCT	DOAS	-7A-1		
	5	EQUIPMENT MATERIAL / P.	IPE .				-			
	6	AREA CLASSIFICATION		NOT	CLASSIFIED					
	7	ENCLOSURE CLASSIFICAT	TON			IP 65 (MÍN.) C	ONF. NBR IEC 60529	1		
	8	CERTIFICATES				(SEE GEN	IERAL NOTES 4)			
	9									
	10	TYPE		MICRO	PROCESSED					
	11	MOUNTING		INTEGR	RAL ELEMENT					
	13	BODY PRESSURE CLASS		BY MAN	NUFACTURER					
	14	HOUSING MATERIAL				POLYCA	RBONATE / ABS			
ĸ	15	POWER SUPPLY				24 V	cc - 2 WIRE			
17E	16	OUTPUT SIGNAL	QUANTITY		4 - 20 mA (500 d	ohms @ 24 Vc	c) (2x) CON	IFIGURABLE		
SMI	17	COMMUNICATION PROTOC	COL				HART			
TRANSMITTER	18	PRECISION				±0	,25% F.E			
	19	REPEATABILITY				BY MAN	NUFACTURER			
	20	CALIBRATION RANGE				BY MAN	NUFACTURER			
	21	CALIBRATED RANGE								
	22	ELECTRICAL CONNECTION	V		BY MANUFACTURER					
	23	DJUSTABLE RANGE / AJ. L	OCAL ZERO AND SPA	4N	YES / YES					
	24	TYPE			TEMPERATURE AND HUMIDITY					
	33	MOUNTING				DUCT				
_	25	ELEMENT TYPE	ELEMENT MATE	ERIAL	BY MANUF	ACTURER	S	S316L		
SOF	26	LENGTH (L)	DIAMETER		300 mm BY MANUFACTURER					
SENSOR	27	HUMIDITY	·		0~100%					
0)	27	SENSOR CONNECTION TO	WELL		BY MANUFACTURER					
	31	CONNECTION TO THE PRO	OCESS			FLANGES FOR DUCT				
	35									
>	29	CONFIGURATOR CABLE			YES					
OR	30	DISPLAY			NO					
ESS	32	FIXING FLANGE IN DUCT			YES					
ACCESSORY	34	CABLE GLAND					YES			
`	35									
,	42	FLUID	PHYSICAL STATE		AIR		Al	R		
ONS			NORMAL	MAXIMUM	10	15	21	℃		
ΪĹ	44	MINIMUM PRESSURE	NORMAL	MAXIMUM		80	250	Pa		
JNO.		MINIMUM HUMIDITY	MAXIMUM HUM	IIDITY	30	%RH	60	%RH		
OPERATING CONDITIONS	46	VISCOSITY @ OPERATING CONDITION			Ср					
NI.	_	DENSITY @ OPERATING CONDITION			kg/m³					
ERA		SUSPENDED SOLIDS (%)	SUSPENDED SOLIDS (%)			NO				
3PE	49	M.M. / Z / Cp/Cv					.//			
0										
	50									
0	-	MANUFACTURER				CONTEM	IP OR SIMILAR			