	
DOC NUMBER: 569-DB7B-AIC-712-001		CLIENT NUMBER: PRD-AIC-DSH-032	
CLIENT: TAKEDA/BAXALTA			
PROJECT: BURITI EPCVM PROJECT			

DATA SHEET

PRESSURE INDICATING TRANSMITTER

2	28JAN2022	ISSUED FOR CONSTRUCTION CONSIDERING COMMENTS	MAB	MAF	RSP
1	17NOV2021	ISSUED FOR CONSTRUCTION UPDATED AS PER NOTES	MAB	MAF	RSP
0	13SEP2021	ISSUED FOR CONSTRUCTION	MAB	MAF	RSP
A	31MAR2021	60% DD ISSUE	MAB	MAF	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV

NUMBER: 569-DB7B-AIC-712-001

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TITLE





SHEET: 2 de 4

PRESSURE INDICATING TRANSMITTER

REV.: 2

DOCUMENT REVIEW CONTROL

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

 		 	
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TITLE			SHEET: 3 de 4
PRESSURE INDICATING TRANSMITTER			REV.: 2
REFERENCE DOCUMENTS			
7B-Z-0-2-03 PRD-AIC-LIS-046		DRUG SUBSTANCE - 3800L MEDIA HOLD TANK - TQ-5201 INTEGRATED PROJECT SERVICES - INSTRUMENT SUGGESTED SUPPLIER LIST	

GENERAL NOTES

- 1 - Transmitters 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) Withstand the respective maximum static design pressures;
 - c) They must be able to identify internal failures;
 - 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) 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.
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- 5 - The manufacturer must inform in the catalog of the transmitter the dimensions of the same for installation in the place indicated in the project.
- 6 - The liquid crystal instrument display with internal illumination for all the information that is necessary for its calibration and indication of necessary variables.
- 7 - 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.
- 8 - Grounding rings must be provided in compatible material, with the instrument box and easy access for assembly, being at least AISI 316.

REVISION 0 - NOTES
1- REVISED AS PER INSTRUMENT LIST NUMBER PRD-AIC-LIS-010_B_PCS_INSTRUMENT_INDEX AND BACKLOG NUMBER 99000-184.0 2021.03.30 - A&IC DOCUMENTS - COMMENTS_REV.01
REVISION 1 - NOTES
1 - ACCORDING NEW ARCHITECTURE UPDATED
REVISION 2 - NOTES
1 - REVISED ACCORDING TO UPDATED LIST OF INSTRUMENTS



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TITLE

SHEET:

PRESSURE INDICATING TRANSMITTER

REV.:

2

GENERAL	1	INSTRUMENT TAG NUMBER		PIT-650101	
	2	SERVICE		INTERNAL PRESSURE VESSEL TQ-6302	
	3	P&ID		7B-Z-0-2-64	
	4	PIPE LINE	EQUIPMENT NUMBER	4"-SFI-650101-SS3-HC	-
	5	EQUIPMENT MATERIAL / PIPE		316L SS	
	6	AREA CLASSIFICATION		NOT CLASSIFIED	
	7	ENCLOSURE CLASSIFICATION		IP 65 (MÍN.) CONF. NBR IEC 60529	
	8	CERTIFICATES		(SEE GENERAL NOTES 7 - PAGE 3)	
	9				
TRANSMITTER	10	TYPE		MICROPROCESSED	
	11	MOUNTING		INTEGRAL	
	12	BODY MATERIAL		316SS	
	13	BODY PRESSURE CLASS		BY MANUFACTURER	
	14	METER CASING		ALUMINIO (COPPER FREE)	
	15	POWER SUPPLY		24 Vcc - 2 FIOS	
	16	OUTPUT SIGNAL		4 - 20 mA (500 ohms @ 24 Vcc)	
	17	COMMUNICATION PROTOCOL		HART	
	18	PRECISION		± 0.075% F.E.	
	19	REPEATABILITY		BY MANUFACTURER	
	20	ELEMENT TYPE		DIAPHRAGM (CAPACITIVE)	
	21	SENSOR ELEMENT MATERIAL		316LSS	
	22	CALIBRATION RANGE		0-10 barG	
	23	CALIBRATED RANGE		0-10 barG	
	24	CONNECTION TO PROCESS (HIGH / LOW)		Ø2" DIAPHRAGM SEAL	1/2" NPT (F)
	25	ELECTRICAL CONNECTION		1/2" NPT (F)	
	26				
	27	ADJUSTABLE RANGE / AJ. LOCAL ZERO AND SPAN		YES / YES	
DIAPHRAGM SEAL	28	DIAPHRAGM SEAL		SANITARY CLAMP	
	29	SEAL MATERIAL		ASTM A270 Gr.TP316L	
	30	CONNECTION TO PROCESS		Ø2" DIAPHRAGM SEAL - HIGIENIC CLAMP	
	31	FLANGE FACE FINISH		FLAT ENDS FOR ORBITAL WELDING X TRI-CLAMP	
	32	FILLING FLUID		MANUFACTURE STANDARD	
	33	CAPILLARY MATERIAL		-	
	34	CAPILLARY LENGTH		-	
	35			-	
ACCESSORIES	36	MOUNTING ACCESSORIES		IN THE VESSEL MOUTHPIECE	
	37	MANIFOLD		NOT	
	38	LOCAL INDICATION		LCD (NOTE 6 - PAGE 3)	
	39	TAGGING		(NOTE 4 - PAGE 3)	
	40	SURGE PROTECTOR		YES	
OPERATING CONDITIONS	41	FLUID	PHYSICAL STATUS	PRODUCT	LIQUID
	42	MINIMUM TEMPERATURE	NORMAL MAXIMUM	-	80 °C
	43	MINIMUM PRESSURE	NORMAL MAXIMUM	-	3 bar-g
	44	DESIGN PRESSURE	DESIGN TEMPERATURE	- bar-g	- °C
	45	VISCOSITY @ OPERATING CONDITION		-	Cp
	46	DENSITY @ OPERATING CONDITION		-	kg/m³
	47	SUSPENDED SOLIDS (%)		-	
	48	M.M. / Z / Cp/Cv		-	
	49				
	50	MANUFACTURER		Endress + Hauser (E+H) or Similar	
	51	MODEL			