







DOC NUMBER:

569-DB7B-AIC-712-009

CLIENT NUMBER: PRD-AIC-DSH-078

CLIENT:

TAKEDA/BAXALTA

PROJECT:

BURITI EPCVM PROJECT

DRUG SUBSTANCE - BMS - DATA SHEET DIFFERENTIAL PRESSURE SWITCH

_				1	
1	25NOV2021	ISSUE FOR CONSTRUCTION CONSIDERING COMMENTS	MAV	MAF	RSP
0	06AUG2021	ISSUE FOR CONSTRUCTION	JHA	MAF	RSP
Α	24MAR2021	60% DD ISSUE	JHA	MAF	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









TITLE

PRESSURE DIFFERENTIAL SWITCH

SHEET:

2 de 12 REV.:

							DOCUMENT I	REV	IEV	v c	ON	TRO	OL							
Revision	Α	0	1	2	3	4	Revision	Α	0	1	2	3	4	Revision	Α	0	1	2	3	4
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1	Х	Χ	Χ				26							51						
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4	Χ	Χ	Χ				29							54						
5	Х	Χ	Χ				30							55						
6	Χ	Χ	Χ				31							56						
7	Χ	Χ	Χ				32							57						
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10	Х	Χ	Χ				35							60						
11	Х	Χ	Χ				36							61						
12	Χ	Χ	Χ				37							62						
13	Х	Χ	/				38							63						
14	Х	Χ	/				39							64						L
15	/	/	/				40							65						L
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18							43							68						L
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20							45							70						
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22							47							72						
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24							49							74						
25							50							75						

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- DELETED PDS-AHU-7B-2-002, PDS-AHU-7B-4-002

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









NUMBER: 569-DB7B-AIC-712-009 CLIENT NR: PRD-AIC-DSH-078

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PRESSURE DIFFERENTIAL SWITCH

REV.:

REFERENCE DOCUMENTS

7B-M-4-5-21	DRUG SUBSTANCE - AFD - AHU-7B-1
7B-M-0-5-22	DRUG SUBSTANCE - AFD - AHU-7B-2
7B-M-0-5-23	DRUG SUBSTANCE - AFD - AHU-7B-3
7B-M-0-5-24	DRUG SUBSTANCE - AFD - AHU-7B-4
7B-M-0-5-25	DRUG SUBSTANCE - AFD - AHU-7B-5
7B-M-0-5-26	DRUG SUBSTANCE - AFD - AHU-7B-6
7B-M-0-5-27	DRUG SUBSTANCE - AFD - AHU-7B-7
7B-M-0-5-28	DRUG SUBSTANCE - AFD - AHU-7B-8
7B-M-0-5-29	DRUG SUBSTANCE - AFD - AHU-7B-9
PRD-AIC-LIS-015	DRUG SUBSTANCE - 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- Provide calibration certificate issued by INMETRO or by organ accredited by it.
- 2- 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.
- 3- The manufacturer must provide rear protection disc.









TITLE

PRESSURE DIFFERENTIAL SWITCH

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								1		
	1	INSTRUMENT TAG NUMBER				PDS-A	HU-7B-1-001			
	2	SERVIÇE			DIFFE	ERENTIAL PRI	ESSURE IN FILTER F	-9/G4		
	3	P&ID				7B	-M-0-5-21			
GENERAL	4	PIPE LINE	EQUIPMENT NUM	MBER	- AHU-7B-1					
	5	EQUIPMENT MATERIAL / PIPE	•		CARBON STEEL					
5	6	AREA CLASSIFICATION			NOT CLASSIFIED					
ľ	7	ENCLOSURE CLASSIFICATION	1		IP 65 (MÍN.) CONF. NBR IEC 60529					
ľ	8	CERTIFICATES					Note 1			
7	9	TYPE OF MEASUREMENT				DOUBLE	DIAPHRAGM			
ŀ	10	MOUNTING					LOCAL			
ľ	11	MATERIAL CASE				ALUMINUM	(COOPPER FREE)			
CLEIMEIVI	12	CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	FOR TUBE PLA	STIC 6mm	UNDER	RSIDE		
		RANGE	DIFFERENTIAL		200~100		-			
┇	_	FIXED / ADJUSTABLE DIFFERE			(Note 1) Pa					
ŀ		BODY MATERIAL			(********)		LICONE			
ŀ	_	RANGE	RESOLUTION		(Note 1)					
+		TYPE			(11010-1)		L CALLY SEALED			
ŀ		AMOUNT				. ILI WIL II	1			
ŀ		NUMBER OF CONTACTS					SPDT			
;		LOAD TYPE								
		CONTACTS CAPACITY			RESISTIVE 1.5A / 250Vac					
5	-	CONT / PRESS ACTION UNDER	>		-					
ŀ		CONT / PRESS ACTION DOWN					OPEN			
ŀ	_	ELECTRICAL CONNECTION					20x1,5 (
+		IDENTIFICATION PLATE					ENERAL NOTES 2)			
2		INSTALLER KIT FOR DUCT OU	FOLUDIATINE			•				
			TUBING		YES - FLAN		QUIPMENT (HVAC) YES- PL	ACTIC		
ŀ		PROBE		4DED						
ŀ		SCREWS	INCREMENT DAM	IPER	YES - FOR FIXING	I THE PRUBE	YE	<u> </u>		
ŀ	_	LOCK VALVE					NO			
3	29									
$\frac{1}{2}$	30		1				ſ			
í	31									
ACCESSONES	32									
`	33									
ŀ	34									
-	35									
-	36		1							
-	37									
4	39	E1.110	DUVOION OTAT	_						
	40	FLUID	PHYSICAL STATE		AIR		All			
2	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	~	21	℃		
2		PRESSURE OPERATION	NORMAL	MAXIMUM		(Note 1)				
2		DIFFERENTIAL PRESSURE	NORMAL DESIGN TEMPER	MAXIMUM	(Note 1)		(Note 1)			
3		DESIGN PRESSURE	(Note 1)	Pa	(Note 1)					
2		VISCOSITY @ OPERATING CO			cP					
;		DENSITY @ OPERATING CONL			kg/m³					
OF ENATING CONDITIONS		SUSPENDED SOLIDS (%)			NO					
ر		SOLIDIFIES AT ROOM TEMPER	NO							
		M.M. / Z / Cp/Cv			/					
		MANUFACTURER	MANUFACTURER				Honeywell			
	51	MODEL	ODEL				DPS 1000			

¹⁻ The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.









PRD-AIC-DSH-078 569-DB7B-AIC-712-009 NUMBER: CLIENT NR:

TITLE

SHEET:

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PRESSURE DIFFERENTIAL SWITCH

REV.:

								1		
	1	INSTRUMENT TAG NUMBER				PDS-A	HU-7B-2-001			
	2	SERVIÇE			DIFFL	ERENTIAL PR	ESSURE IN FILTER	F9/G4		
	3	P&ID				7B	-M-0-5-22			
RAL	4	PIPE LINE	EQUIPMENT NU	JMBER		-	A	HU-7B-2		
GENERAL	_	EQUIPMENT MATERIAL / PIPE	1		CARBON STEEL					
GE		AREA CLASSIFICATION				NOT CLASSIFIED				
		ENCLOSURE CLASSIFICATION	1				ONF. NBR IEC 6052			
	-	CERTIFICATES					Note 1			
	9	TYPE OF MEASUREMENT					E DIAPHRAGM			
	_	MOUNTING					LOCAL			
		MATERIAL CASE					(COOPPER FREE)			
:NI		CONEX. PROCES. / ACESS.	CONNECTION F	POSITION	FOR TUBE PLA			RSIDE		
ELEMENT	-	RANGE	DIFFERENTIAL	00/1/0/4	200~100		ONDE	NOIDE		
ELI		FIXED / ADJUSTABLE DIFFERE			(Note 1)					
		BODY MATERIAL	IVIIAL		(Note 1)		ILICONE			
	_	RANGE	RESOLUTION		(Note 1)		LICONE			
			RESOLUTION		(Note 1)		CALLYSEALED			
		TYPE				TEKIVIE I I	CALLY SEALED 1			
	_	AMOUNT								
I		NUMBER OF CONTACTS					1 SPDT			
SWITCH		LOAD TYPE					ESISTIVE			
SM	-	CONTACTS CAPACITY			1,5A / 250Vac					
		CONT / PRESS ACTION UNDER	?				-			
	_	CONT / PRESS ACTION DOWN					OPEN			
		ELECTRICAL CONNECTION					120x1,5 (
		IDENTIFICATION PLATE				•	ENERAL NOTES 2)			
	_	INSTALLER KIT FOR DUCT OU					QUIPMENT (HVAC)			
	26	PROBE	TUBING		YES - FLAN	GEDED	YES- F	PLASTIC		
	27	SCREWS	INCREMENT DA	AMPER	YES - FOR FIXING	THE PROBE	Y	ES		
	28	LOCK VALVE					NO			
ES	29									
ACCESSORIES	30		_							
:SS	31									
CCE	32									
Ä	33									
	34									
	35									
	36									
	37									
	39									
	40	FLUID	PHYSICAL STA	TE	AIR		F	MR		
S	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	~	22	℃		
707	42	PRESSURE OPERATION	NORMAL	MAXIMUM		(Note 1)	Pa			
VD/		DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1)	Pa	(Note 1)) Pa		
OPERATING CONDITIONS	44	DESIGN PRESSURE	DESIGN TEMPE	RATURE	(Note 1)	Pa	(Note 1)) °C		
ΛG	45	VISCOSITY @ OPERATING CO		-	сР					
ATII	46	DENSITY @ OPERATING COND			kg/m³					
ZER.	47	SUSPENDED SOLIDS (%)			NO					
0	48	SOLIDIFIES AT ROOM TEMPER			NO					
	49	M.M. / Z / Cp/Cv			/					
	50	MANUFACTURER			Honeywell					
	-	MODEL			DPS 1000					
		1								

¹⁻ The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.









TITLE

SHEET:

6 de 12 REV.:

PRESSURE DIFFERENTIAL SWITCH

								1			
	1	INSTRUMENT TAG NUMBER				PDS-AF	HU-7B-3-001				
	2	SERVIÇE			DIFFERI	ENTIAL PRE	SSURE IN FILTER F	9/G4			
	3	P&ID				7B-	M-0-5-23				
RAL	4	PIPE LINE	EQUIPMENT NUM	/BER	- AHU-7B-3						
GENERAL	5	EQUIPMENT MATERIAL / PIPE			CARBON STEEL						
GE	6	AREA CLASSIFICATION			NOT CLASSIFIED						
	7	ENCLOSURE CLASSIFICATION			IP		NF. NBR IEC 60529				
	8	CERTIFICATES					Vote 1				
	9	TYPE OF MEASUREMENT					DIAPHRAGM				
	_	MOUNTING					OCAL				
		MATERIAL CASE					COOPPER FREE)				
INT		CONEX. PROCES. / ACESS.	CONNECTION DO	CITION	FOR TUBE PLAS	· · · · · ·	UNDER	DOIDE			
ELEMENT			CONNECTION PO	DSITION			UNDER	SIDE			
ELE		RANGE	DIFFERENTIAL		200~1000 F						
		FIXED / ADJUSTABLE DIFFERE	NIIAL		(Note 1) Pa						
		BODY MATERIAL	1			· · · · · · · · · · · · · · · · · · ·	LICONE				
		RANGE	RESOLUTION		(Note 1) Pa						
		TYPE				HERMETIC	CALLY SEALED				
		AMOUNT					1				
+	19	NUMBER OF CONTACTS				1	SPDT				
SWITCH	20	LOAD TYPE		RE	SISTIVE						
SWI	21	CONTACTS CAPACITY			1,5A / 250Vac						
٥,	22	CONT / PRESS ACTION UNDER	?			-					
	23	CONT / PRESS ACTION DOWN				(OPEN				
	24	ELECTRICAL CONNECTION				M2	20x1,5 (
	38	IDENTIFICATION PLATE)	YES (SEE GE	ENERAL NOTES 2)				
	25	INSTALLER KIT FOR DUCT OU I	EQUIPMENT		,	YES FOR EQ	UIPMENT (HVAC)				
	26	PROBE	TUBING		YES - FLANGE	EDED	YES- PL	ASTIC			
	27	SCREWS	<i>IPER</i>	YES - FOR FIXING T	HE PROBE	YE	S				
	28	LOCK VALVE	1				NO				
S	29										
RIE	30										
ACCESSORIES	31										
SES	32										
ACC	33										
	34										
	35										
	36										
	37		l								
	39										
		FLUID	PHYSICAL STATE	_	AIR		All				
		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	~	22	<u>~</u> ℃			
SNC	41				10			C			
ITIC	42	PRESSURE OPERATION	NORMAL	MAXIMUM	(1)	(Note 1)		D-			
OPERATING CONDITIONS		DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) P		(Note 1)				
300		DESIGN PRESSURE	DESIGN TEMPER	KATUKE	(Note 1) P		(Note 1)	·U			
JNL	45	VISCOSITY @ OPERATING COM					cP				
RA7	46	DENSITY @ OPERATING COND	DITION		1		kg/m³				
)PE	47	SUSPENDED SOLIDS (%)			1		NO				
٥	48	SOLIDIFIES AT ROOM TEMPER.	ATURE				NO				
	49	M.M. / Z / Cp/Cv			/						
	50	MANUFACTURER			Honeywell						
1	51	MODEL			DPS 1000						

NOTES:

The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.









TITLE

7 de 12 REV.:

PRESSURE DIFFERENTIAL SWITCH

								1				
	1	INSTRUMENT TAG NUMBER				PDS-AHU-7B-4-001						
	2	SERVIÇE			DIFFE	RENTIAL PRE	SSURE IN FILTER	F9 / G4				
	3	P&ID				7B	-M-0-5-24					
GENERAL	4	PIPE LINE	EQUIPMENT N	UMBER	- AHU-7B-4							
ENE	5	EQUIPMENT MATERIAL / PIPE				CARE	BON STEEL					
5	6	AREA CLASSIFICATION			NOT CLASSIFIED							
	7	ENCLOSURE CLASSIFICATION	I		IP 65 (MÍN.) CONF. NBR IEC 60529							
	8	CERTIFICATES			Note 1							
	9	TYPE OF MEASUREMENT				DOUBLE	E DIAPHRAGM					
	10	MOUNTING					LOCAL					
	11	MATERIAL CASE				ALUMINUM	(COOPPER FREE)					
ELEMEN	12	CONEX. PROCES. / ACESS.	CONNECTION	POSITION	FOR TUBE PLA	STIC 6mm	UNDE	RSIDE				
N I	13	RANGE	DIFFERENTIAL	-	200~100) Pa						
1	14	FIXED / ADJUSTABLE DIFFERE	NTIAL		(Note 1)	Pa						
	15	BODY MATERIAL			, ,	Si	ILICONE					
		RANGE	RESOLUTION		(Note 1)	Pa	1					
٦		TYPE	1		, , ,		CALLY SEALED					
		AMOUNT			1		1					
	_	NUMBER OF CONTACTS					1 SPDT					
5		LOAD TYPE					ESISTIVE					
		CONTACTS CAPACITY				RESISTIVE 1.5A / 250Vac						
,		CONT / PRESS ACTION UNDER	₹			<u> </u>	-					
	23	CONT / PRESS ACTION DOWN	1				OPEN					
	24	ELECTRICAL CONNECTION					120x1,5 (
		IDENTIFICATION PLATE					ENERAL NOTES 2)					
		INSTALLER KIT FOR DUCT OU	EQUIPMENT				QUIPMENT (HVAC)					
		PROBE	TUBING		YES - FLAN			PLASTIC				
		SCREWS	INCREMENT D	AMPER	YES - FOR FIXING	THE PROBE		ES				
		LOCK VALVE					NO					
٨	29											
ACCESSORIES	30											
	31		1									
2	32											
2	33											
	34											
	35		1		1							
	36											
	37						1					
	39											
	40	FLUID	PHYSICAL STA	\TE	AIR		A	IR				
,	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	~	22	°C				
3	42	PRESSURE OPERATION	NORMAL	MAXIMUM		(Note 1)	Pa	1				
5	43	DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1)	Pa	(Note 1)	Pa				
	44	DESIGN PRESSURE	DESIGN TEMP	ERATURE	(Note 1)	Pa	(Note 1)	0°€				
	45	VISCOSITY @ OPERATING CO	NDITION				cР					
	46	DENSITY @ OPERATING CONL	DITION				kg/m³					
or End mind containing	47	SUSPENDED SOLIDS (%)					NO					
5		SOLIDIFIES AT ROOM TEMPER	RATURE		NO							
		M.M. /Z/Cp/Cv			/							
٦		MANUFACTURER			1		oneywell					
	-	14005	ANUFACTURER									

NOTES:

51 MODEL

DPS 1000

The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.









TITLE

SHEET:

8 de 12 REV.:

PRESSURE DIFFERENTIAL SWITCH

								1		
	1	INSTRUMENT TAG NUMBER				PDS-A	HU-7B-5-001			
	2	SERVIÇE			DIFFE	RENTIAL PRE	SSURE IN FILTER F	9/G4		
	3	P&ID				7B-	-M-0-5-25			
GENERAL	4	PIPE LINE	EQUIPMENT NUM	1BER	- AHU-7B-5					
NE		EQUIPMENT MATERIAL / PIPE			CARBON STEEL					
GE	_	AREA CLASSIFICATION			NOT CLASSIFIED					
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
		CERTIFICATES			<u>'</u>		Note 1			
	9	TYPE OF MEASUREMENT								
	Ľ				DOUBLE DIAPHRAGM LOCAL					
	_	MOUNTING			ALUMINUM (COOPPER FREE)					
<u> </u>		MATERIAL CASE	I							
ELEMENT		CONEX. PROCES. / ACESS.	CONNECTION PC	SITION	FOR TUBE PLA		UNDEF	RSIDE		
7	-	RANGE	DIFFERENTIAL		200~1000					
4		FIXED / ADJUSTABLE DIFFERE	(Note 1)							
	15	BODY MATERIAL			SILICONE					
	16	RANGE	RESOLUTION		(Note 1)	Pa				
	17	TYPE				HERMETI	CALLY SEALED			
	18	AMOUNT					1			
	19	NUMBER OF CONTACTS				1	SPDT			
5	20	LOAD TYPE				RE	SISTIVE			
SWIICH		CONTACTS CAPACITY				1,54	1 / 250Vac			
0	-	CONT / PRESS ACTION UNDER	!		-					
		CONT / PRESS ACTION DOWN					OPEN			
		ELECTRICAL CONNECTION					20x1,5 (
		IDENTIFICATION PLATE					ENERAL NOTES 2)			
L		INSTALLER KIT FOR DUCT OU	EOLUDMENT				QUIPMENT (HVAC)			
	_				VEO ELAN			ACTIO		
		PROBE	TUBING	1050	YES - FLANG		YES- PL			
		SCREWS	INCREMENT DAM	IPER	YES - FOR FIXING	THE PRUBE	YE	.5		
	28	LOCK VALVE					NO			
ES.	29									
ACCESSORIES	30									
55	31									
3	32									
Ĭ	33									
	34									
	35									
	36									
	37		-							
	39									
	40	FLUID	PHYSICAL STATE		AIR		Al	R		
ر ر	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	~	21	°C		
Ś	42	PRESSURE OPERATION	NORMAL	MAXIMUM	1	(Note 1)	Pa			
OPERA IING CONDITIONS			NORMAL	MAXIMUM	(Note 1)	` ´	(Note 1)	Pa		
5		DESIGN PRESSURE	DESIGN TEMPER		(Note 1)		(Note 1)			
ט	45	VISCOSITY @ OPERATING COI			()		cP			
٤							kg/m³			
ž		SUSPENDED SOLIDS (%)	NSITY @ OPERATING CONDITION				NO NO			
2		` ′								
-		SOLIDIFIES AT ROOM TEMPER	AIUKE				NO ,			
_		M.M. /Z/Cp/Cv			/					
	-	MANUFACTURER			Honeywell					
	51	MODEL			1	DI	PS 1000			

NOTES:

The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.









TITLE

9 de 12 REV.:

PRESSURE DIFFERENTIAL SWITCH

								1		
	1	INSTRUMENT TAG NUMBER				PDS-A	HU-7B-6-001			
	2	SERVIÇE			DIFFER	ENTIAL PRE	SSURE IN FILTER F	9/G4		
	3	P&ID				7B-	-M-0-5-26			
RAI	4	PIPE LINE	EQUIPMENT NUI	MBER	-		AH	IU-7B-6		
GENERAL	5	EQUIPMENT MATERIAL / PIPE	-		CARBON STEEL					
GE		AREA CLASSIFICATION			NOT CLASSIFIED					
		ENCLOSURE CLASSIFICATION	1		IP 65 (MÍN.) CONF. NBR IEC 60529					
		CERTIFICATES	<u>'</u>		<u>"</u>		Note 1			
-	_	TYPE OF MEASUREMENT					DIAPHRAGM			
		MOUNTING								
					LOCAL					
₽		MATERIAL CASE	Indiana in the second	00/7/04/			(COOPPER FREE)	2012		
ELEMENT	_	CONEX. PROCES. / ACESS.	CONNECTION P	OSITION	FOR TUBE PLAS		UNDEF	RSIDE		
:TE		RANGE	DIFFERENTIAL		200~1000 i	-				
٦		FIXED / ADJUSTABLE DIFFERE	NTIAL		(Note 1) P	a				
	15	BODY MATERIAL					LICONE			
	16	RANGE	RESOLUTION		(Note 1) P	a a				
	17	TYPE				HERMETI	CALLY SEALED			
	18	AMOUNT					1			
	19	NUMBER OF CONTACTS				1	SPDT			
SWITCH	20	LOAD TYPE				RE	SISTIVE			
MIT	21	CONTACTS CAPACITY				1,5A	A / 250Vac			
S		CONT / PRESS ACTION UNDER	₹							
		CONT / PRESS ACTION DOWN					OPEN			
		ELECTRICAL CONNECTION					20x1,5 (
		IDENTIFICATION PLATE			-		ENERAL NOTES 2)			
		INSTALLER KIT FOR DUCT OU	FOLUDIAENT				QUIPMENT (HVAC)			
		PROBE		YES - FLANGI		YES- PL	LASTIC			
			TUBING	MDED	YES - FOR FIXING 1					
		SCREWS	INCREMENT DAI	VIPER	YES - FOR FIXING I	HE PRUBE	YE	:3		
		LOCK VALVE					NO			
ES	29									
ORI	30		·							
ACCESSORIES	31									
CC	32									
Ř	33									
	34									
	35									
	36									
	37		•			'				
	39									
	40	FLUID	PHYSICAL STAT	E	AIR		Al	R		
ا ي	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10	~	19	°C		
OPERATING CONDITIONS	42	PRESSURE OPERATION	NORMAL	MAXIMUM	1	(Note 1)	Pa	1		
110		DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) P		(Note 1)	Pa		
<u> </u>		DESIGN PRESSURE	DESIGN TEMPER		(Note 1) P		(Note 1)			
၁၂	45	VISCOSITY @ OPERATING CO	,,		cP					
≧		DENSITY @ OPERATING COND			kg/m³					
KA		SUSPENDED SOLIDS (%)								
0 0			NO NO							
		SOLIDIFIES AT ROOM TEMPER	MIURE		NO , ,					
4		M.M. / Z / Cp/Cv			/					
		MANUFACTURER			Honeywell					
	E 4	MODEL			DPS 1000					

¹⁻ The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.









TITLE

10 de 12 REV.:

PRESSURE DIFFERENTIAL SWITCH

	1	INSTRUMENT TAG NUMBER			PDS-AHU-7B-7-001						
	2	SERVIÇE			DIFFERENTIAL PRE	SSURE IN FILTER F9 / G4					
١.	3	P&ID			7B-	-M-0-5-27					
RAI	4	PIPE LINE	EQUIPMENT NUM	IBER	- AHU-7B-7						
GENERAL	5	EQUIPMENT MATERIAL / PIPE			CARBON STEEL						
GE		AREA CLASSIFICATION			NOT	CLASSIFIED					
		ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529						
		CERTIFICATES			Note 1						
		TYPE OF MEASUREMENT				E DIAPHRAGM					
	\vdash	MOUNTING				LOCAL					
		MATERIAL CASE				(COOPPER FREE)					
N		CONEX. PROCES. / ACESS.	CONNECTION PO	CITION	FOR TUBE PLASTIC 6mm	UNDERSIDE					
ELEMENT	-	RANGE	DIFFERENTIAL	SITION	200~1000 Pa	UNDERSIDE					
ELE											
	-	FIXED / ADJUSTABLE DIFFERE	NTIAL		(Note 1) Pa	LICONE					
	_	BODY MATERIAL	Inconversion.			LICONE					
		RANGE	RESOLUTION		(Note 1) Pa						
					HERMETI	CALLY SEALED					
	_	AMOUNT				1					
<i>-</i>		NUMBER OF CONTACTS				1 SPDT					
SWITCH	$\overline{}$					ESISTIVE					
SW					1,54	A / 250Vac					
		CONT / PRESS ACTION UNDER				-					
	23	CONT / PRESS ACTION DOWN				OPEN					
	24	ELECTRICAL CONNECTION				20x1,5 (
	38	IDENTIFICATION PLATE			YES (SEE GI	ENERAL NOTES 2)					
	25	INSTALLER KIT FOR DUCT OU	EQUIPMENT		YES FOR EC	QUIPMENT (HVAC)					
	26	PROBE	TUBING		YES - FLANGEDED	YES- PLASTIC					
	27	SCREWS	INCREMENT DAM	IPER	YES - FOR FIXING THE PROBE	YES					
	28	LOCK VALVE				NO					
S	29										
RIE	30										
ACCESSORIES	31										
CES	32										
AC	33										
	34										
	35		1								
	36										
	37		1			1					
	39										
	40	FLUID	PHYSICAL STATE		AIR	AIR					
(^	41	MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10 ~	20 ℃					
ONS	42	PRESSURE OPERATION	NORMAL	MAXIMUM	(Note 1)						
/L/C	43	DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) Pa	(Note 1) Pa					
ONE	44	DESIGN PRESSURE	DESIGN TEMPERA		(Note 1) Pa	(Note 1) °C					
OPERATING CONDITIONS	45	VISCOSITY @ OPERATING COI		5712	(11010-1) 1 4	cP (Note 1) C					
JIN		DENSITY @ OPERATING COND				kg/m³					
RA		SUSPENDED SOLIDS (%)	ITTON			-					
ЭЬЕ	47	` ′	ATURE		NO NO						
	48	SOLIDIFIES AT ROOM TEMPER	AIUKE		NO , , , ,						
\vdash		M.M. / Z / Cp/Cv			/ /						
		MANUFACTURER			Honeywell						
	51	MODEL			DPS 1000						

¹⁻ The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.









NUMBER: 569-DB7B-AIC-712-009 CLIENT NR: PRD-AIC-DSH-078

TITLE

SHEET:

PRESSURE DIFFERENTIAL SWITCH

11 de 12 REV.:

								1		
	1	INSTRUMENT TAG NUMBER				PDS-A	HU-7B-8-001			
	2	SERVIÇE			DIFFE	RENTIAL PRE	SSURE IN FILTER	F9 / G4		
	3	P&ID				7B	-M-0-5-28			
RAI	4	PIPE LINE	EQUIPMENT NU	JMBER		-	A	HU-7B-8		
GENERAL	5	EQUIPMENT MATERIAL / PIPE	1		CARBON STEEL					
B	6	AREA CLASSIFICATION				NOT CLASSIFIED				
	7	ENCLOSURE CLASSIFICATION	1			IP 65 (MÍN.) CONF. NBR IEC 60529				
	-	CERTIFICATES					Note 1			
	9	TYPE OF MEASUREMENT				DOUBLE	E DIAPHRAGM			
	10	MOUNTING					LOCAL			
	11	MATERIAL CASE				ALUMINUM	(COOPPER FREE)			
EN1	12	CONEX. PROCES. / ACESS.	CONNECTION F	POSITION	FOR TUBE PLA			ERSIDE		
ELEMENT		RANGE	DIFFERENTIAL		200~100					
ΕΓ		FIXED / ADJUSTABLE DIFFERE			(Note 1)					
		BODY MATERIAL			(*******)		I ILICONE			
	_	RANGE	RESOLUTION		(Note 1)		1			
		TYPE			(11010-1)		L CALLY SEALED			
		AMOUNT					1			
	_	NUMBER OF CONTACTS					1 SPDT			
H		LOAD TYPE					ESISTIVE			
SWITCH		CONTACTS CAPACITY			+		A / 250Vac			
S		CONT / PRESS ACTION UNDER	?		1,5A7250Vac					
		CONT / PRESS ACTION DOWN	<u>.</u>		+		OPEN			
		ELECTRICAL CONNECTION			+		120x1,5 (
		IDENTIFICATION PLATE			+		ENERAL NOTES 2)			
		INSTALLER KIT FOR DUCT OU	EOLUDMENT			•	QUIPMENT (HVAC)			
		PROBE	TUBING		YES - FLAN			PLASTIC		
	27	SCREWS	YES - FOR FIXING			ES ES				
	28	LOCK VALVE	INCREMENT DA	AWF LIX	TES-TOKTIXING	THEFRODE	NO '			
		LOCK VALVE					100			
ACCESSORIES	29 30									
SOF	31		1		_		1			
ES:	-									
4CC	32									
,										
	34 35									
	36									
	37 39				-					
		FLUID	PHYSICAL STA	TF	AIR		<u> </u>	AIR		
		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10		22	™ T °C		
SNC	41	PRESSURE OPERATION	NORMAL		10	/Nota 11	!			
JITIC	42	DIFFERENTIAL PRESSURE		MAXIMUM MAXIMUM	(Note 1)	(Note 1)	(Note 1	\ P2		
JNC		DESIGN PRESSURE	NORMAL DESIGN TEMPE		(Note 1)		(Note 1)			
OPERATING CONDITIONS		VISCOSITY @ OPERATING CO		.NATUKE	(Note 1)	ı a	cP (Note 1)			
JNL		DENSITY @ OPERATING COND								
RA					kg/m³ NO					
ЭЬЕ		SUSPENDED SOLIDS (%)	DATUBE							
		SOLIDIFIES AT ROOM TEMPER	AIUKE		NO , ,					
		M.M. / Z / Cp/Cv			/					
	_	MANUFACTURER			Honeywell					
	51	MODEL				D	PS 1000			

¹⁻ The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.









12 de 12

REV.:

PRD-AIC-DSH-078 NUMBER: 569-DB7B-AIC-712-009 CLIENT NR: SHEET:

TITLE

PRESSURE DIFFERENTIAL SWITCH

		_								
	1	INSTRUMENT TAG NUMBER			PDS-AF	HU-7B-9-001				
	2	SERVIÇE			DIFFERENTIAL PRES	SSURE IN FILTER F9 / G4				
7	3	P&ID			7B-I	M-0-5-29				
ERA	4	PIPE LINE	EQUIPMENT NU	IMBER	- AHU-7B-9					
GENERAL	5	EQUIPMENT MATERIAL / PIPE	•		CARBON STEEL					
19	6	AREA CLASSIFICATION			NOT CLASSIFIED					
	7	ENCLOSURE CLASSIFICATION			IP 65 (MÍN.) CONF. NBR IEC 60529					
	8	CERTIFICATES			Note 1					
		TYPE OF MEASUREMENT				DIAPHRAGM				
	_	MOUNTING				OCAL				
		MATERIAL CASE				COOPPER FREE)				
INT	_	CONEX. PROCES. / ACESS.	CONNECTION F	POSITION	FOR TUBE PLASTIC 6mm	UNDERSIDE				
ELEMENT		RANGE	DIFFERENTIAL	03/110/1	200~1000 Pa	ONDENGIDE				
ELE		FIXED / ADJUSTABLE DIFFERE								
		BODY MATERIAL	IVIIAL		(Note 1) Pa					
			DESCRIPTION		SILICONE					
		RANGE	RESOLUTION		(Note 1) Pa					
		TYPE			HERMETIC	CALLY SEALED				
	_	AMOUNT				1				
	_	NUMBER OF CONTACTS				SPDT				
SWITCH		LOAD TYPE				SISTIVE				
SW		CONTACTS CAPACITY			1,5A	/250Vac				
	22	CONT / PRESS ACTION UNDER	?			-				
		CONT / PRESS ACTION DOWN			C	OPEN				
	24	ELECTRICAL CONNECTION			M2	20x1,5 (
	38	IDENTIFICATION PLATE			YES (SEE GE	ENERAL NOTES 2)				
	25	INSTALLER KIT FOR DUCT OU	EQUIPMENT		YES FOR EQ	UIPMENT (HVAC)				
	26	PROBE	TUBING		YES - FLANGEDED	YES- PLASTIC				
	27	SCREWS	INCREMENT DA	MPER	YES - FOR FIXING THE PROBE	YES				
	28	LOCK VALVE	_			NO				
S	29									
RIE	30									
ACCESSORIES	31									
CE	32									
AC	33									
	34									
	35									
	36									
	37		ı							
	39									
\vdash		FLUID	PHYSICAL STAT	 TE	AIR	AIR				
_ ا		MINIMUM TEMPERATURE	NORMAL	MAXIMUM	10 ~	21 °C				
SNC	L	PRESSURE OPERATION	NORMAL	MAXIMUM	(Note 1)	_				
OPERATING CONDITIONS		DIFFERENTIAL PRESSURE	NORMAL	MAXIMUM	(Note 1) Pa	(Note 1) Pa				
ONI		DESIGN PRESSURE	DESIGN TEMPE		(Note 1) Pa	(Note 1) °C				
G C		VISCOSITY @ OPERATING COI			` '	cP				
JIN		DENSITY @ OPERATING COND				kg/m³				
:RA		SUSPENDED SOLIDS (%)				NO				
OPE	-		ATLIDE			NO				
-	48	SOLIDIFIES AT ROOM TEMPER	AIUKE							
		M.M. /Z/Cp/Cv			/					
	50	MANUFACTURER			Honeywell					
1	51	MODEL			DPS 1000					

The HVAC HAS SET THE MODEL AND MANUFACTURER, AND THE ADJUSTMENT OF THE ACTUATION POINTS WILL BE INSERTED AT THE TIME OF INSTALLATION TO THE MACHINE.