

## **CLARIFICATION NO. 04**

### **TENDER NO. PROC-FC/CB/PROD/UCH-II-3128/2017 SUPPLY OF LEVEL GUAGES & LEVEL TRANSMITTERS, PCV/FCV SPARES & DIFFERENTIAL PRESSURE TRANSMITTERS**

**Clarification:** - Please confirm Level Transmitter Type/Working Principle

**Response to Clarification:** - 'Magnetostrictive'

**Clarification:**-Detail of required Differential Pressure Transmitter (Group-C) Model number

**Response to Clarification:-** 'see attachment for detail'

<b>GENERAL INFORMATION:</b>									
1	Tag Number:		PDT-2222		PDT-2228		PDT-2234		
2	Service Description:		T-2202A DELIVERY GAS STN FILTERS		T-2202B DELIVERY GAS STN FILTERS		T-2202C DELIVERY GAS STN FILTERS		
3	Location:		GAS DELIVERY STN		GAS DELIVERY STN		GAS DELIVERY STN		
4	Line; Vessel; Equipment No:	Piping Class:	PF-0025	DA2N	PF-0026	DA2N	PF-0027	DA2N	
5	P & ID No:		DWG-00-BP-2201		DWG-00-BP-2201		DWG-00-BP-2201		
6	R.F.Q. No:	Purchase Order No:	J-0009	10016	J-0009	10016	J-0009	10016	
7	Item No:		5		6		7		
8	Manufacturer:		FISHER-ROSEMOUNT		FISHER-ROSEMOUNT		FISHER-ROSEMOUNT		
9	Vendor:		FISHER-ROSEMOUNT		FISHER-ROSEMOUNT		FISHER-ROSEMOUNT		
10	Model No:		1151DP		1151DP		1151DP		
11	Serial No:		RS0305292		RS0305293		RS0305294		
12	Electrical Area Classification:		CL 1 ZN 2 GRP IIA		CL 1 ZN 2 GRP IIA		CL 1 ZN 2 GRP IIA		
13	Electrical Certification:		SAA 'Exd'		SAA 'Exd'		SAA 'Exd'		
14	<b>PROCESS SERVICE CONDITIONS:</b>								
15	Fluid:	State:	HC GAS	GAS	HC GAS	GAS	HC GAS	GAS	
16	Temperature: Maximum:		144	°F	144	°F	144	°F	
17	Temperature: Minimum:			77		77		77	
18	Pressure: Maximum:		900	PSIG	900	PSIG	900	PSIG	
19	Pressure: Minimum:		570	600	570	600	570	600	
20	Pressure Differential Max (PSI):		10		10		10		
21	<b>CONSTRUCTION TRANSMITTER:</b>								
22	Transmitter Type:		SILICON SENSOR		SILICON SENSOR		SILICON SENSOR		
23	Mounting:		2" PIPE		2" PIPE		2" PIPE		
24	Transmitter Case Material:		ALUMINIUM		ALUMINIUM		ALUMINIUM		
25	Material:	Body:	316 SS	316 SS	316 SS	316 SS	316 SS	316 SS	
26	Pressure Element Type:		DIAPHRAGM		DIAPHRAGM		DIAPHRAGM		
27	Element Material:		316 SS		316 SS		316 SS		
28	Overpressure Protection:	Rating:	YES	STD	YES	STD	YES	STD	
29	Range Units:		PSID		PSID		PSID		
30	Differential Range Limits:		0-27		0-27		0-27		
31	Calibrated Differential Range:		0-10		0-10		0-10		
32	Zero Elevation:	Suppression:	N/A	N/A	N/A	N/A	N/A	N/A	
33	Accuracy:	+/-% Span	0.1		0.1		0.1		
34	Total Temperature Effect at Max. Span:		0.5		0.5		0.5		
35	Stability (6 months):		0.1		0.1		0.1		
36	Transmitter:	Supply:	24 VDC	4-20mA	24 VDC	4-20mA	24 VDC	4-20mA	
37	Integral Meter:	Meter Scale:	YES	0-10	YES	0-10	YES	0-10	
38	Enclosure Type:	IP Rating:	WP	IP 65	WP	IP 65	WP	IP 65	
39	Entry:	Size:	20mm	TERMINAL	20mm	TERMINAL	20mm	TERMINAL	
40	Connections:	Process:	1/2" NPTF	N/A	1/2" NPTF	N/A	1/2" NPTF	N/A	
41	Connection Location:		BOTTOM		BOTTOM		BOTTOM		
42	<b>VALVE MANIFOLD:</b>								
43	Valve Manifold:	Mounting:	NO		NO		NO		
44	Manufacturer:								
45	Model No.:								
46	Material:	Body:							
47	Trim:								
48	<b>INSTRUMENT OPTIONS:</b>								
49	'Smart' Electronics:	Protocol:	YES	HART	YES	HART	YES	HART	
50	Mounting Bracket:	Type:	YES	2" PIPE	YES	2" PIPE	YES	2" PIPE	
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**GENERAL NOTES:** \* = Information to be provided by VENDOR

- The VENDOR shall provide all instruments with a stainless steel tag plate stamped with the INSTRUMENT TAG No. in 5mm high characters permanently attached to the instrument with either stainless steel wire or screws.
- All permanent instrument fixings shall be stainless steel.
- Instrument valve manifolds, where specified as a VENDOR supplied option shall be close coupled to the transmitter.
- The VENDOR shall provide pressure transmitters conforming to the material requirements for sour gas service in accordance with NACE std MR-01-75.

1	AS-BUILT	26-Jun-97			
0	ISSUED FOR PURCHASE	01-Jul-96	AST	DED	AST
B	ISSUED FOR TENDER	24-Apr-96	AST	YYU	AST
A	ISSUED FOR PROCESS INFORMATION	20-Mar-96	AST		
Re	REVISION DESCRIPTION	DATE	PREPARED	CHECKED	APPROVED
<b>INSTRUMENT DATA SHEET</b> <b>PRESSURE TRANSMITTERS</b> <b>DIFFERENTIAL PRESSURE</b>		Client: Oil & Gas Development Corp			
		Project: Uch Gas Pipeline			
		Data Sheet No: DS-00-JP-0009.03			
		Job No: 1846	Revision: 1		