


GENERAL	1	Comm. Protocol		Tag Number		MBS		115AT -80276	
	2	Line Number		P&ID Number		115P8012-4"-HBE		PD115-A-8000-4	
	3	Equipment Number				115-P02			
	4	Service				PROD WELL TUBING DISCH			
	5	Location				FIELD			
	6	Ambient Temperature				-45 to 35 °C			
PROCESS DATA	7	Fluid Name				Emulsion			
	8	Fluid State		Fluid Phase		Liquid		Single Phase	
	9	Flow Rate	Min	Nor	Max	UOM	37.85	43.54	Sm³/h
	10	Pressure	Min	Nor	Max	UOM	2103	2175	kPa-g
	11	Temperature	Min	Nor	Max	UOM	204.1	204.2	°C
	12	Viscosity	Min	Nor	Max	UOM	20	20	cP
	13	Density	Min	Nor	Max	UOM	857.7	857.7	kg/m³
	14	Conductivity	Min	Nor	Max	UOM			S/cm
	15	Bubble Point	Min	Nor	Max	UOM			°C
	16	Dew Point	Min	Nor	Max	UOM			°C
	17	Velocity	Min	Nor	Max	UOM			m/s
	18	Corrosive	Erosive	Solidifying	Toxic	Yes			
19	Average Particle Size				400 micron				
PROBE	20	Tag Number				115AE-80276			
	21	Measurement Style				Metal Loss			
	22	Probe Type				CEION Tubular Probe - 0.040" THK (T40)			
	23	Line Size		Nozzle Projection		4" Sch80		150 mm	
	24	Insertion Length				Order Length: VTD mm, From flange face: VTD mm			
	25	Process Connection				2", ANSI 600#, RF Flanged, 125-150 µ-IN Finish			
	26	Nozzle / Flange Material				ASTM A106 Gr. B / ASTM A105N/A350LFC			
	27	Probe Material				316 SS body / BS 970 070 M20 CS element			
	28	Mounting				In-Line			
	29	Cable Length				10m (6 pair 22awg individually foil screened data cable)			
	30	Product Code				10327G0034640A06			
TRANSMITTER	31	Tag Number				115AT-80276			
	32	Type				Single - Channel			
	33	Output				MODBUS RS485			
	34	Housing Material				SST			
	35	Area Classification				Class 1 Zone 2 Group IIA			
	36	Enclosure				NEMA 4X			
	37	Distance to Probe				10 m			
	38	Temperature Compensation				Yes			
	39	Local Indication				No			
	40	Power Supply				24 VDC, Current VTA			
	41								
CERTIFICATES	42	NACE Certificate				Yes, MR 0175 / ISO-15156			
	43	MTR				Yes			
	44	CSA Approval				Yes			
	45								
OTHERS	46	Isolation Valve				No			
	47	Gauge				Yes			
	48	Hollow Plug Assembly				Yes (PN: AHPA B03)			
	49								
	50								
PURCHASE	51	Vendor		Price		CORR SCIENCE INC.			
	52	Manufacturer		SAP Number		Cormon		02-02304	
	53	Model				10326G0000000000/10327G0034640A06			
	54	PO Number							
	55	Serial Number							
	56								


For Notes, See Next Page

REV 113-01

						INSTRUMENT SPECIFICATION			
						Sand Erosion Monitor			
1A	SK	AD	MR		12/06/12	Issued For Quotation		Sheet 1 of 2	
Rev.	By	Chkd	Eng	Appr	Date	Description	SAP No.:02-02304	Doc No.:DS115-J-AT80276-1	Rev.: 1A

Tag Number : 115AT -80276

1. The instrument shall be identified with two permanently attached 316 SS tag one riveted on & one attached with SS wire.
2. The instrument shall be supplied with an Alberta CRN number.
3. All electrical devices shall be CSA approved and meet ANSI/ISA-12.27.01
4. The transmitter is rated at -50 °C.
5. Mechanical Lift Max  
Liquid: Flow - 43.54 Sm<sup>3</sup>/h; Density - 857.7 kg/m<sup>3</sup>; Superficial Velocity 1.997 m/s  
Bulk Velocity: 1.63 m/s
6. Design Condition is 8149 kPag @ 278 °C
7. Std. Density - 1051 kg/m<sup>3</sup>.
8. Line 19, 400 micron is the maximal particle size.

				INSTRUMENT SPECIFICATION  Sand Erosion Monitor		 Sheet 2 of 2	
	SE						
1A	SK	12/06/12	Issued For Quotation				
No.	By	Date	Revision	Code:117	Dwg. No.: DS115-J-AT80276-1	Rev.: 1A	