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Technical Bulletin

TDL Differential Level Transmitter

Order Worksheet

Section 1 - Output Signal

(Not available with HD3)

- 1 Analog (4-20 mA) only 2 Analog w/HART

Distributor: _____

Reference PO#: _____

Tank Name: _____

Section 2 - Product Density (Specific Gravity)

A. Known SP GR = _____ B. SP GR = [_____ (kg/lit) / 1] C. SP GR = [_____ (lbs/gal) / 8.345]
 (Note: If multiple products in vessel, provide data for heaviest only)

Section 3 - Vessel Height - Output #1 (Differential)

A. Determine working height above center line of sensor = _____ inches (nearest tenth)

B. Differential Level Calculation = A x Specific Gravity (Section 2)

C. Differential Output Span Calibration (URV) 20 mA at _____ inches water column

(If unable to determine working height, please submit complete vessel print)

Section 4 - Secondary Output

- 1 Top Sensor (vacuum / pressure) 2 Bottom Sensor (total system pressure)

Output #2 Full Scale Calibration (URV) 20.00 mA at Maximum working pressure = _____ inches water column
 (13.56"wc = 1"Hg 27.7"wc = 1 psig 0.03937"wc = 1 mmwc 4.02"wc = 1 kPa 0.402"wc = 1 mBar)

Output #2 Zero Calibration (LRV) 4.00 mA at Minimum working pressure / maximum vacuum = [- _____] inches water column
 (Factory default is -360 inches water column, must be 0.0 inches water column if 2 is selected)

(Conversion Examples: -360.0"wc = 26.5"Hg 138.5"wc = 5 psig 415.0"wc = 15 psig 830.0"wc = 30 psig 1385.0"wc = 50 psig)

Section 5 - Sensors

Select Range:

Minimum Differential Output
 Maximum Pressure

- HD1 Low Range
 50.0" water column
 15 psig (415.0"wc)

- HD2 Medium Range HD3 High Range
 100.0" water column 170.0" water column
 30 psig (830.0"wc) 50 psig (1385.0"wc)

1 Bottom (Total System Pressure)

Bottom Sensor Fitting

- 089 Anderson Flush Mount Long (insulated tank)
 088 Anderson Flush Mount Short (un-insulated tank)
 004 1-1/2" Tri-Clamp
 005 2" Tri-Clamp
 141 Sanitary Tank Spud Connection - Short
 (Rosemount / Foxboro)
 142 Sanitary Tank Spud Connection - Long
 (Rosemount / Foxboro)
 150 3" ANSI 150 Flange - Flush
 151 3" ANSI 150 Flange - 2" extension
 152 3" ANSI 150 Flange - 4" extension
 153 3" ANSI 150 Flange - 6" extension

2 Top (Vacuum / Pressure)

Top Sensor Fitting

- 089 Anderson Flush Mount Long (insulated tank)
 088 Anderson Flush Mount Short (un-insulated tank)
 004 1-1/2" Tri-Clamp
 005 2" Tri-Clamp
 141 Sanitary Tank Spud Connection - Short
 (Rosemount / Foxboro)
 142 Sanitary Tank Spud Connection - Long
 (Rosemount / Foxboro)
 150 3" ANSI 150 Flange - Flush
 151 3" ANSI 150 Flange - 2" extension
 152 3" ANSI 150 Flange - 4" extension
 153 3" ANSI 150 Flange - 6" extension

Diaphragm

- 1 - SS 316L (Standard) 2 - Hastelloy "C"

Diaphragm

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Mounting Angle of Diaphragm

- 0- ← 1- ↑ 2- ↗

Mounting Angle of Diaphragm

- 0- ← 3- ↓ 2- ↘

Cable

- 02 - 10' 05 - 25' 10 - 50' 15 - 75'

Cable

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