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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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