

DP LEVEL TRANSMITTER RANGE CALCULATOR

Project: Condensate drum LT 4201

Calc no: CALC LT 001

Rev: 0

Yellow cells: enter data. Grey cells: calculated automatically. Free template from instrumentationblog.in

Installation

Configuration	Wet leg	Process liquid density (kg/m ³)	1000
Minimum level above HP tap (m)	0	Maximum level above HP tap (m)	3
Distance between taps, wet leg height (m)	3.5	Wet leg fill density (kg/m ³)	1000
Transmitter below HP tap (m)	0.5	Output unit	mbar

Result

LRV (mbar)	-343.23	URV (mbar)	-49.03
Span (mbar)	294.20	Zero condition	Zero elevation

Calibration points

Level (%)	Level above HP tap (m)	Applied DP (mbar)	Output (mA)	Reading
0	0.000	-343.23	4.00	
25	0.750	-269.68	8.00	
50	1.500	-196.13	12.00	
75	2.250	-122.58	16.00	
100	3.000	-49.03	20.00	

Wet leg: the LP impulse line is filled with liquid of density ρ_s from the upper tap down to the transmitter. Open tank or dry leg: the LP side sees only gas or atmosphere (its head is neglected).

Prepared by	Checked by
Name:	Name:
Signature:	Signature:
Date:	Date: