

Radar Level Transmitter

FEATURES

Self Adjusting Tracking Radar for Solid Materials Programmable (recommended) and Simple push-button calibration Swivel Mtg. Aimer (recommended) Output 4-20mA / 20-4 mA (Isolated on 4 Wire Model's only) Optional RS232 OR RS485 For Communications with calibration, diagnostics & data logging software PLC compatible (Modbus RTU) Three or Four wire operations.

AAPPLICATIONS

Solids with Dust Powders

MECHANICAL

Conduit Entry : ½" NPT X 2
Enclosure : Aluminum or SS – 94V0
Ingress Protection : NEMA 4 (IP65) Type 4/4 X

ENVIRONMENTAL

Temperature : -40 to 140°F (-40 to 60°C)
Installation Category : Class II

PROCESS

Temperature Std. : -40 to 140°F (-40 to 60°C)
c/w Teflon De-coupler: -40 to 350°F (-40 to 177°C)
Material Dielectric : $\epsilon_r > 2$
Max. Pressure : 5 bar

For very dusty applications divide max. range by two.



OPERATIONAL

Operation : Pulse Radar
 Accuracy : +/- 0.1% of max. range in lab using 4-20mA current output
 +/-0.25% of max. range (typically in field)
 Frequency : 26 GHz
 Loss of Echo : Hold 1 to 3 min.
 22mA or mA output
 Transmitter Power : 50uW average
 Calibration : Via communications port (required)
 Diagnostics : (Echo Profile) via communications port
 Antenna : Point Antenna PTFE with Horn for solid materials. A horn extension is required for very low dielectric and dusty powder materials

TECHNICAL SPECIFICATIONS

Radar Range Code	Range In Solids	Resolution	Mounting
017	*- 17ft. * - 5m	0.08" 2.0 mm	2.0 NPT
033	*- 33ft. * - 10m	0.15" 3.9mm	2.0 NPT
050	*- 50ft. * - 15m	0.22" 5.7 mm	2.0 NPT
100	*- 100ft. * - 30m	0.44" 11 mm	2.0 NPT
240	*- 240ft. * - 73m	1.06" 26 mm	2.0 NPT

Power ABM 400 AC	115 VAC 60Hz or 230 VAC 50Hz (+/- -20%), 1.7 VA
ABM 300 DC	12 to 30 VDC, 0.07 A max @24 VDC R load = (Vs -6) / 24 mA
Output	4-20 mA Output 6.1 uA resolution
	750Ohms(Isolated on 4 wire only)
	Optional RS232 or RS485 communications port

Note - * Minimum Distance 36" from the bottom of the thread base

Continuous efforts for product development may necessitate changes in these details without notice

Authorised Dealer



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