

Radar Level Transmitter with Digital Indicator

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

DETAILS OF LEVEL TRANSMITTER :

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

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

Power Supply	: 230 V AC, 115 V AC or, 24 V DC
Enclosure	: IP 65 or, Ex-proof
Output	: 4 to 20 mA, RS 232 or, RS 485

DETAILS OF LEVEL INDICATOR :

Display	: 7 segment LED 4 X 1 line (or, LCD)
Mounting	: Panel mounted
Dimensions	: 96(W) X 96(H) X 100(D) mm or, 96(W) X 48(H) X 110(D) mm
Power Supply	: 230 V AC, 110 V AC or, 24 V DC (As per clients requirement)
Input	: 4 to 20 mA from Level Transmitter
Output	: 4 to 20 mA or, Relays (As per clients requirements)

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

Authorised Dealer



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