

# LPRS.03 series Self Adjusting “Smart” Radar Standard Measurement Sensors

## Description

6,3G Smart Series radar level meter for liquids, slurries, granular materials and block level material non-contact continuous measurement for temperature, pressure changes; inert gases and volatile situations exist. Measurement method using microwave pulses, and can work in the industrial frequency band range. Low energy beam that can be installed in a variety of metals, non-metallic container or pipe, no harm to humans and the environment.

## Principle

Transmitting and receiving a very short low energy pulses of microwave antenna system. Radar to the speed of light. Running time thereof can be converted into a digital signal by the electronic components. A special way to ensure that the extension of time very short stable and accurate measurement. Even under more complicated conditions, the presence of false echoes, with the latest micro-processing technology, and debugging software can accurately analyze the level of echo.



## APPLICATIONS

- Food and Beverages
- Water / Wastewater
- Crude Oil
- Light Oil
- Volatile Liquids

## PROCESS

Temperature PP Rod	: - 40 to 250°C (- 40 to 480°F)
Material Dielectric	: Er >2
Working Pressure	: -1...30 bar
Connection	: Flanged DIN or ANSI

## OPERATIONAL

Operation	: Pulse Radar
Accuracy	: +/- 10 mm
Response Time	: Standard Unit 2 - 3 echo's per sec.
Frequency	: 6,3 GHz.
Loss of Echo	: Hold 1 min., 22mA or 2 mA. output
Transmit Power	: 50 uW average
Calibration	: Via communications port (required)
Diagnostics	: (Echo Profile) via communications port
Antenna	: Stainless Steel
Range	: Up to 30 m

## ELECTRICAL SPECIFICATION

DC	: 24V DC (+/-10%)
	R load = $(V_s - 6) / 24$ mA
AC	: 115 VAC 60 Hz or 230 VAC 50 Hz (+/-20%) , 1.7 VA optional
Output	: 4-20 mA, two wire Output 6.1 uA resolution 750 Ohms
Comm.	: HART
Display	: LCD, four digit as optional

## ENVIRONMENTAL

Temperature	: - 40 to 160°F (- 40 to 70°C)	Protection	: IP67
Approvals	: FCC Part 15 - Low Power Communication Device	Installation Category	: Class II



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