

**New
Products**

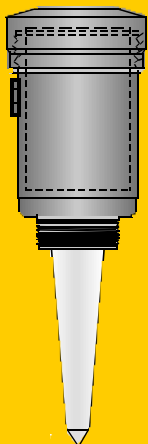
Low Cost Radar "Smart" Level Measurement Sensors



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FEATURES

Simple push-button calibration
(Accurate)
Output 4-20 mA (Isolated on 4 Wire
Model's only)
Optional RS232 OR RS485
communications with calibration
diagnostics & data logging software
PLC compatible (Modbus RTU)



APPLICATIONS

Food and Beverages
Water / Wastewater
Chemicals with vapors

MECHANICAL

Conduit Entry 1/2" NPT
Enclosure Aluminum - 94V0
Ingress Protection NEMA 4 (IP65)

ENVIRONMENTAL

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

ABMXXX-XXXR

Optional Communications— Specify
RS232 or RS485
R = Radar 6.3 GHz
XX = Operating Range
400 = AC Power , 300 = DC Power

TECHNICAL SPECIFICATIONS

MODEL	RANGE	RESOLUTION	MOUNTING
ABM300 - 050R 3 Wire - DC	* - 50 ft. * - 15 m	0.22" 5.7 mm	2.0" NPT
ABM300 - 100R 3 Wire - DC	* - 100 ft. * - 30 m	0.44" 11 mm	2.0" NPT
ABM400 - 050R 4 Wire - AC	* - 50 ft. * - 15 m	0.22" 5.7 mm	2.0" NPT
ABM400 - 100R 4 Wire - AC	* - 100 ft. * - 30 m	0.44" 11 mm	2.0" NPT

Note - * Minimum Distance starts at the lower tip of the antenna .



PROCESS

Temperature PP Antenna - 40 to 190°F
(- 40 to 90°C)

Material Dielectric $\epsilon_r > 2$
Pressure 1-10 bar 15-150 psi

OPERATIONAL

Operation Pulse Radar

Accuracy +/-0.25% of maximum target
range (in air)

Frequency 6.3 GHz

Loss of Echo Hold 30 seconds, 22mA output Time

Transmitter Power 50 uW average

Calibration Push-button or programmable
via optional communications port.

Diagnostics (Echo Profile) via communications
Port

Antenna Dielectric rod (PP, & Optional PTFE)

ELECTRICAL SPECIFICATIONS

Power	AC	115 VAC 60 Hz or 230 VAC 50 Hz (+/-20%) , 1.7 VA
	DC	12 to 30 VDC , 0.07 A max @ 24 Vdc R load = $(V_s - 6) / 24 \text{ mA}$
Output	4-20 mA Output 6.1 uA resolution	
	750 Ohms (Isolated on 4 Wire only)	
	Optional RS232 or RS485 communications port.	