Radar "Smart" Level Measurement Sensors

FEATURES

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





APPLICATIONS

Food and Beverages
Water / Wastewater
Chemicals with vapors
Oils

MECHANICAL

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

ENVIRONMENTAL

Temperature - 40 to 140°F
(- 40 to 60°C)
Material Dielectric ^{a} r >2
Pressure 1-10 bar 15-150 psi
Approvals Pending

OPERATIONAL

Operation	Self Adjusting Power , Gain and Pulse Width Radar
Resolution	+/-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)

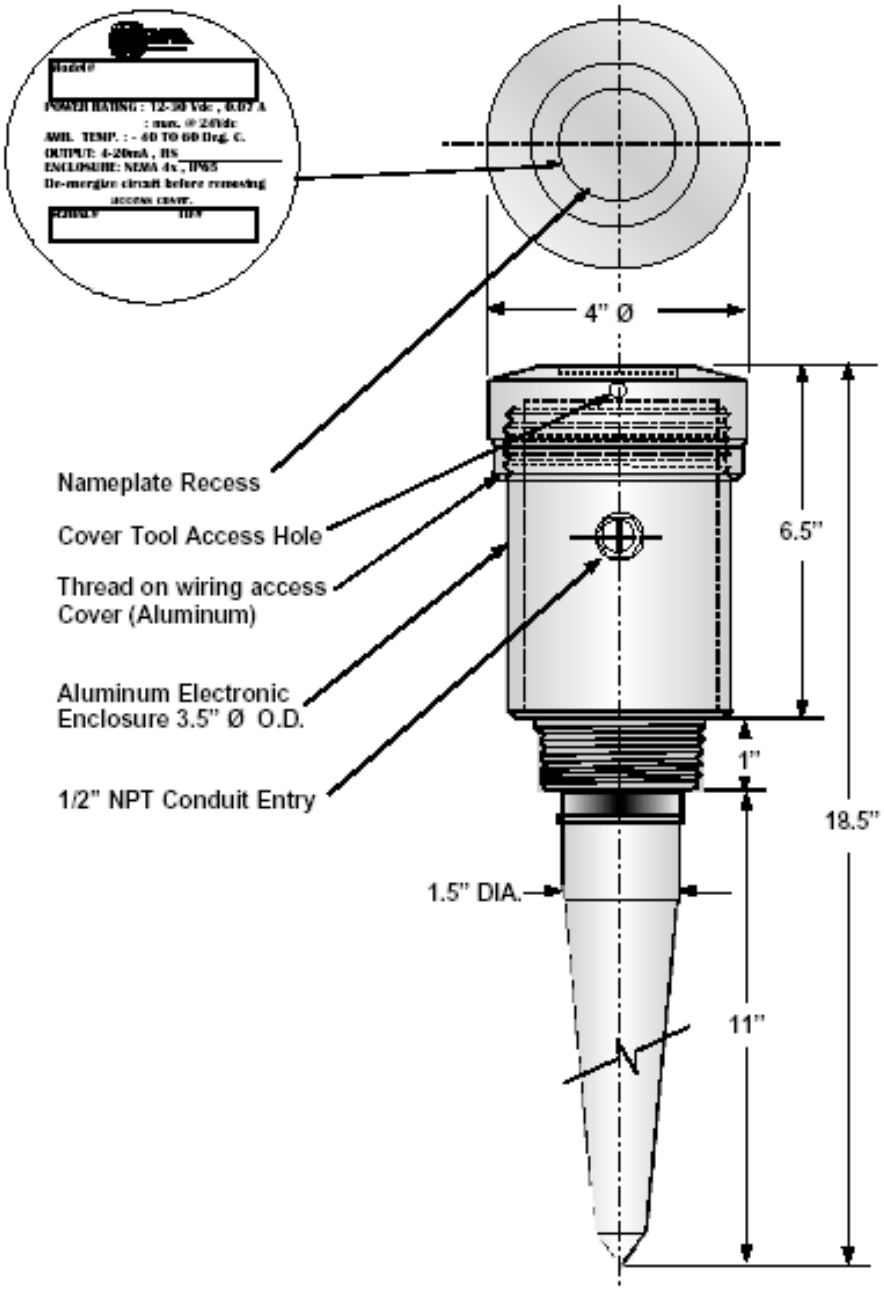
TECHNICAL SPECIFICATIONS

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 .

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

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ABM300/400– 050R & 100R