



Self Adjusting "Smart" Radar 2 Wire Measurement Sensors For Special Outdoor Flood Monitoring



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FEATURES

2 Wire Operation
Self Adjusting Tracking Radar
Simple push-button calibration
Output 4 - 20 mA / 20 - 4mA
Communication with "HART 7"

APPLICATIONS

Flood Monitoring (Rivers ,Lakes ,Sea Water)
Water / Wastewater
Chemicals with vapors

MECHANICAL

Conduit Entry : 1/2" NPT x 2
Enclosure : Aluminum or S.S. - 94V0
Ingress Protection : NEMA 6 (IP68)

ENVIRONMENTAL

Temperature :- 40 to 140°F (- 40 to 60°C)
Approvals : FCC Part 15 - Low Power
Communication Device

FM(USA)

FM3810 (2005) Electrical Electronic Test, Measuring and
Process Control Equipment

ANSI/NEMA 250 (1991) :Enclosures for Electrical Equipment

FM(CAN.):

CSA C22.2 No. 1010.1 (2004) Safety Requirements for Electrical
Equipment for Measurement, Control and Laboratory Use

- Part 1: General Requirements

CSA C22.2 No. 94 (2011) Special Purpose Enclosures

Installation Category: Class II

Catalogue # - On the Web return to Home Page & Refer to
Catalogue Number Structure for Ordering information.
In Product Documentation refer to Page 4.



OPERATIONAL

Operation : Pulse Radar
Frequency : 6.3 GHz.&26 GHz
Loss of Echo : 0 min. no loss of echo
: 1 min. to 3 min. loss of echo time

Loss of Echo

Current :Default 22mA , or 3.5 mA

Transmit Power :50 uW average

Antenna :Horn 316 S.S. for very low dielectric
constant materials and short blanking

PROCESS

Temperature PP Rod: - 40 to 176°F (- 40 to 80°C)

De-coupler & PTFE Rod - 40 to 350°F (- 40 to 177°C)

Material Dielectric : Er > 1.4

Max. Pressure : 5 bar (without De-coupler)

TECHNICAL SPECIFICATIONS

Model	Range	Res.	Accuracy	IP	Operation
ABM300 -017R6 R2C2- ALHR4 (6)	5 m	+/- 1 mm	+/-0.03%	IP68	6.3 GHz 26 GHz
ABM300 -033R6 R2C2- ALHR4 (6)	10 m	+/-1 mm	+/-0.03%	IP68	6.3 GHz 26 GHz
ABM300 -050R6 R2C2- ALHR4 (6)	15 m	+/- 1 mm	+/-0.03%	IP68	6.3 GHz 26 GHz
ABM300 -100R6 R2C2- ALHR4 (6)	30 m	+/- 1 mm	+/-0.03%	IP68	6.3 GHz 26 GHz

Note - * Minimum Range starts at the lower tip of the antenna for
high dielectric material (water). For low dielectric materials
allow longer Minimum Range.

Note -**Only 2" and 3"NPT Mtg. Connection Available on High
Temperature Radar.

ELECTRICAL SPECIFICATIONS

Power	
ABM200 DC	20 to 30 VDC , R load max. = (Vs - 14) / 25 mA
Output	4-20 mA Output 6.1 uA resolution Optional Communication with "HART 7"