

ABM300 /400

ABM 3 or 4 Wire "Smart" Sanitary Radar Level Transmitter

HIGHLIGHTS

- 3 or 4 Wire Operation
- Power: ABM 400: 115VAC / ABM300: 12 to 30VDC
- Self Adjusting Tracking Radar
- Programmable and Simple push-button calibration
- Output 4 - 20 mA / 20 - 4mA
- Communication with HART, RS232 or RS485
- Food Grade Teflon Antenna c/w Ferrule Mtg. Base

OPERATIONAL

Operation: Pulse Radar

Accuracy: +/- 0.1% of max. range

Frequency: 6.3 GHz.

Loss of Echo

Current: Default 22mA , or 3.5 mA

Transmit Power: 50 uW average

Antenna: Teflon PTFE

Approvals : CAN/CSA: C22.2 No. 1010.1-M92 +A2

Ambient Temperature:- 40 to 140°F (- 40 to 60°C)

Process Temperature:

Teflon Rod: - 40 to 400°F (- 40 to 204°C)

Material Dielectric: Er >2

Pressure: max. 2 bar

Process Connection: Sanitary 2" Tri-Clamp

Enclosure: Aluminum or S.S. : NEMA 6 (IP68)

Conduit Entry: 1/2" NPT x 2



Range Code	Operating RANGE In Liquids	Resolution
017	* - 17 ft. * - 5 m	0.08" 2.0 mm
033	* - 33 ft. * - 10 m	0.15" 3.9 mm
050	* - 50 ft. * - 15 m	0.22" 5.7 mm
100	* - 100 ft. * - 30 m	0.44" 11 mm

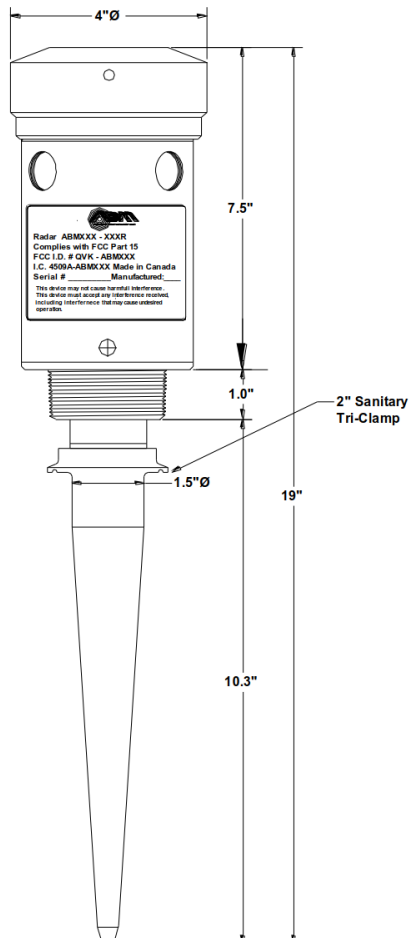
PROCESS

Temperature Teflon Rod: - 40 to 400°F (- 40 to 204°C)

Material Dielectric: Er >2

Max. Pressure : 2 bar

DIMENSIONS



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

Radar C/W Sanitary 2" Antenna

Catalogue Numbering Structure

- Sanitary "Smart" Radar Sensors

ABMXXX-YYY-R6-CX-HH-S20C20

Supply Voltage:

XXX = 300 - 3 Wire 12-30 Vdc
400 - 4 Wire 120 Vac or 230 Vac

Maximum Range :

YYY = 017 = 17ft (5m)
033 = 33ft (10m)
050 = 50ft (15m)

Operating Frequency:

R = R6 = 6.3 GHz

Communications:

C = 4 = RS485
2 = RS232
H = HART

Housing Material:

HH = AL- Aluminum Enclosure Housing
SS- SS316L Enclosure Housing

Antenna:

A = S20 - TEFLON Rod Antenna with
C20 - 2" Sanitary Tri clamp Mounting

Applications -

This range of sensors are used in liquid applications such as Food & Beverage processing. Where Food Grade Antenna and Mounting base are required. Other ideal applications are Pharmaceutical and Chemical as the Radar adapts to any condition automatically without user involvement.

Benefits -

- Enclosures are suitable for IP68 environmental conditions.
- Self adjusting Monitors inside tank's environment and adjusts its power and sensitivity to receive one echo only.
- Enclosures are available in different materials to withstand any environment
- Very narrow radiation beam which allows installation very close to tank's wall.
- Works at any Temperature