

**New
Product**

Self Adjusting "Smart" 26 GHz Radar for Solid Materials



730 The Kingsway Peterborough, Ont. K9J6W6 Canada
Tel: (705) 740 — 2010 Web: www.abmsensor.com
Fax: (705) 740 — 2563 E-mail: info@abmsensor.com

FEATURES

Self Adjusting Tracking Radar for Solid Materials
Programmable (recommended) and
Simple push-button calibration
Swivel Mtg. Aimer (recommended)
Output 4-20 mA / 20-4mA
(Isolated on 4 Wire Model's only)
Optional RS232 OR RS485
For communications with calibration,
diagnostics & data logging software
PLC Compatible (Modbus RTU)
Three or four Wire Operation

APPLICATIONS

Solids with Dust
Powders

MECHANICAL

Conduit Entry : 1/2" NPT x 2
Enclosure : Aluminum Or S.S. - 94V0
Ingress Protection : NEMA 4 (IP65) Type 4/4X
: Special Order NEMA 6 (IP68)

ENVIRONMENTAL

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

PROCESS

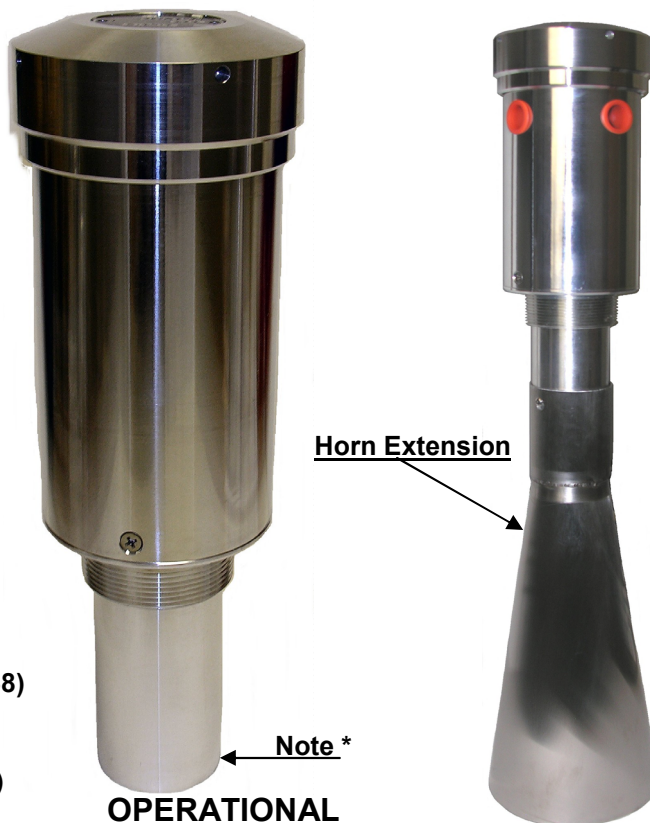
Temperature Std. : - 40 to 140°F (- 40 to 60°C)
c/w Teflon De-coupler: - 40 to 350°F (- 40 to 177°C)
Material Dielectric : $\epsilon_r > 2$
Max. Pressure : 5 bar
For very dusty applications divide max. range by two.

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

TECHNICAL SPECIFICATIONS

Radar Range Code	RANGE In Solids	RESOLUTION	MOUNTING
050	* - 50 ft. * - 15 m	0.22" 5.7 mm	2.0" NPT
100	* - 100 ft. * - 30 m	0.44" 11 mm	2.0" NPT
140	* - 140 ft. * - 42 m	0.64" 16 mm	2.0" NPT
240	* - 240 ft. * - 73 m	1.06" 26 mm	2.0" NPT

Note - * Minimum Distance 36" from the bottom of the thread base.



OPERATIONAL

Operation : Pulse Radar
Accuracy : +/- 0.1% of max. range in lab using
4-20mA current output
+/-0.25% of max. range (typically in field)
Frequency : 26 GHz
Loss of Echo: Hold 1 to 3 min.,
22mA or 2 mA. output
Transmitter Power : 50 uW average
Calibration : Via communications port (required)
Diagnostics : (Echo Profile) via communications port
Antenna : Point Antenna PTFE with Horn for
solid materials. A horn extension is
required for very low dielectric and
dusty powder materials.

Power ABM400 AC	115 VAC 60 Hz or 230 VAC 50 Hz (+/-20%), 1.7 VA
ABM300 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.