





Expertise, Quality, Integrity... to EMPOWER you!

RadarRight™ Series 480



& Bulk Solids

Non-Contact Radar Continuous Level Sensor for Powders & Bulk Solids



FEATURES & ADVANTAGES

- ▼ Non-contact level measurement solution...nothing to "touch" your process.
- ▼ REAL-TIME CONTINUOUS OUTPUT provides immediate level measurements.
- ▼ INCLUDES LCD DISPLAY MODULE for easy set-up / configuration.
- ▼ 4° BEAM ANGLE to concentrate energy for HIGH ACCURACY and reliability with materials having a wide range of characteristics.
- ▼ MINIMAL "DEAD BAND" ("BLANKING ZONE") for optimum measurement in vessel.
- ▼ GIMBAL (SWIVEL) STYLE PROCESS CONNECTION enables aiming antenna for added measurement accuracy and avoiding internal obstacles, flow streams, etc.
- ▼ AIR PURGE to optimize sensor performance in dusty conditions.
- ▼ EXTREMELY LOW EMISSION POWER with "pulse" technology; is harmless towards the environment and human beings.

PRINCIPLE OF OPERATION

The RadarRight radar level instrument emits a microwave pulse from its antenna, which travels at the speed of light to the surface of the medium below. The time-of-flight of the pulse and its reflection back to the instrument location is directly related to the empty distance in the vessel and the material level. The output from the electronics is continuously updated as the level of the material surface changes.

PRACTICAL APPLICATIONS

- Excellent when application requires that nothing contacts or interferes with the process.
- Strong performance with powders and bulk solids in vessels up to 200ft (60m) tall.
- ▼ Reliable measurements in dusty conditions.
- ▼ Suitable for various metal or nonmetal vessels.

OPTIONS

- **▼** Output Options:
 - ▼ "Smart" RS-485 (Modbus RTU compatible)
 - ▼ Analog 4-20mA (two-wire, loop powered)
- **▼** Variety of mounting flanges.
- HMI² Local Operator Interface Control Console and SiloTrack™ Cloud (For use with "Smart" RS-485 sensor only.)





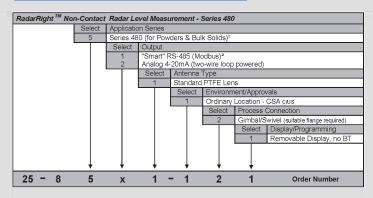


FAX: (630) 365-5646

SPECIFICATIONS

APPLICATION	BULK SOLIDS / POWDERS	
MEASUREMENT RANGE	200 FT (60M)	
MEASUREMENT ACCURACY	+/- 0.20IN (5.0MM)	
AMBIENT OPERATING	-40F то 266F (-40С то 130С)	
TEMPERATURE		
PROCESS TEMPERATURE	-40F to 392F (-40C to 200C)	
PROCESS PRESSURE	-14.5 TO 43PSI (-0.1 TO 0.3MPA)	
FREQUENCY	80 GHz	
BEAM ANGLE (3DB)	4 DEGREES	
SIGNAL OUTPUT	RS-485 MODBUS OR 4-20MA	
Power	4-WIRE: 9-27 VDC; MAX 1.5W	
1 3 11 2 11	2-WIRE: 12-30 VDC; MAX 22.5MA	
4-20MA LOOP IMPEDENCE	5330нмs ат 24VDC	
DISPLAY/PROG LCD	INCLUDED	
Housing	POWDER COATED ALUMINUM ALLOY	
ANTENNA MATERIAL	316L AND PTFE	
PROCESS CONNECTION	VARIOUS FLANGES	
PROTECTION LEVEL	IP67/TYPE4X	
APPROVALS/CONFORMITY	CSA ORDINARY LOCATIONS, CE	
DEAD BAND	2.62FT (0.8M)	

ORDERING INFORMATION



MOUNTING FLANGES AND ACCESSORIES:

PART #	DESCRIPTION
25-3111	K-FLANGE (ALUMINUM)
25-3113	4" ANSI FLANGE (316L SS)
25-0071	FITTING ADAPTER, G 1/8" TO 1/8" NPT
R0514-22001 ³	Belden 9322, Cable Instrumentation, 2-Lead, Shielded ⁴
R0514-18001 ³	CABLE, INSTRUMENTATION, 4-LEAD, SHIELDED, 18 AWG ⁴
17-8021	Power Supply, Universal AC to 24VDC4

NOTE:

- 1 Consult Monitor Technologies factory for all applications prior to pricing and issuing quotation.
- 2 Optional HMI² Operator Interface and SiloTrack™ Cloud for use with "Smart" RS-485 version only.
- 3 Cable is not for plenum installations. Consult local electrical codes and verify compliance before installing.
- Cable or power supply are not included. Must be ordered separately.

MECHANICALS



INFORMATION ON THIS SHEET IS SUBJECT TO CHANGE WITHOUT NOTICE

Silo Installation Example



Display Module



HMI²



SiloTrackTM CLOUD



