

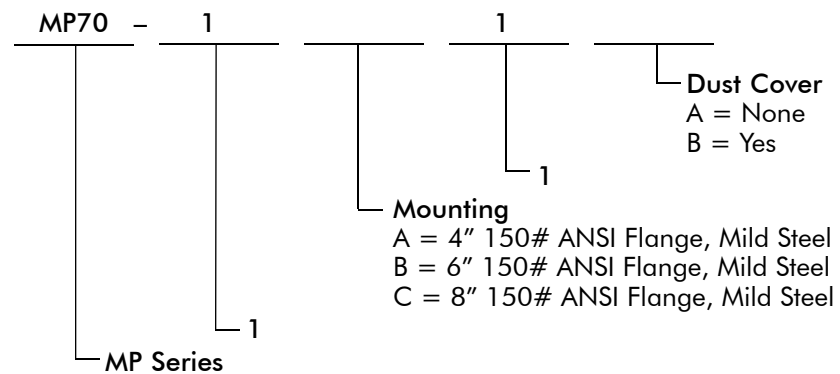


The MP Series radar sensor provides non-contact, continuous level measurement for bulk materials in bins, tanks and silos. Accurate and reliable in difficult environments, the MP Series is an ideal level meter for powder and bulk solid inventory management. The MP Series withstands corrosive environments and takes consistent measurements in steam, dust and other turbulent conditions.

## HOW IT WORKS

The MP Series measures the level of material in a bin or silo by monitoring the time it takes for an emitted microwave pulse to travel from the level meter to the surface of the material being measured and back to the meter. This time is calculated into distance which is then translated into a level measurement.

## HOW TO ORDER



## FEATURES AND BENEFITS

- Easy to read, liquid crystal display for data, configuration and troubleshooting
- 26 GHz transmitting frequency with a narrow beam angle of 8°
- Swivel flange to direct unit to optimal location
- 2-Wire 20 to 32 VDC Power Supply
- Measures up to 230 feet (70m)
- Accuracy of ±1.2 inch (30 mm)



SWIVEL FLANGE

## SPECIFICATIONS

FUNCTIONAL	
Antenna	Horn
Power Supply	20 to 32 VDC
Power Consumption	Max. 704 mW
Mounting	Swivel flange
Dead Zone	11.8 in. (30 cm) below the antenna
Max Measurable Distance	230 ft (70 m)
Transmitting Frequency	Approx. 26 GHz
Transmitting Cycle	Every 83 ms
Beam Angle (-3 dB)	Approx. 8° degrees
Resolution	1 mm
Allowable Fluctuation Rate	10 cm/s
PERFORMANCE	
Accuracy	± 1.2 in. or 0.04% of span, whichever is greater
Ambient Temp.	Housing: -40° ~ 140° F (-40 ~ + 60° C); With LCD: -68° ~ 140° F (-20 ~ + 60° C). Note: 1 hour warm-up operation required at -40° F (-40° C)  Antenna: -40° to 302° F (-40° to 150° C)
Pressure	Horn/Transducer (Max): 145 PSI (1 MPa) Swivel Mount Leakage (Max): 1.5 PSI (10k Pa)
Conduit Entry	1-G <sup>1</sup> / <sub>2</sub> or Cable Gland
Output Signal	4 to 20 mA x 1 (Resistive load Max. 499 Ω), HART
Integral Time	0-999 s
PHYSICAL	
Material	Housing: ADC Antenna: SUS316L
Protection	Housing: IP66 (Housing cover and conduit entry must be closed) Antenna: IP67
Mass	Approx. 13 lb (6.0 kg)

## DIMENSIONS

