

LEVEL MEASUREMENT

ProWave 80G Radar

138 W81

SBEM
YOUR MEASUREMENT PARTNER

INTRODUCTION

Introducing the ProWave80G Series, an advanced solution for precise level indication in both solids and liquids across diverse process applications. Operating at 80 GHz and utilizing Frequency Modulated Continuous Wave (FMCW) radar technology. The ProWave80G- W81 offers accuracy and reliability, with a maximum range of 120 meters. The ProWave80G- W81 is designed to support 2-wire applications, including 4 to 20mA and 4 to 20mA+HART communication protocol. It seamlessly integrates into existing systems without any major modification.

FEATURES & BENIFITS

- Accurate Level measurement: The high frequency of ProWave80G radar enables accurate distance measurement, making it ideal for applications such as distance sensing and object tracking.
- False echo suppression: False echo suppression improves the accuracy of radar measurements by filtering out unwanted signals that may cause inaccuracies.
- Narrow Beam Angle: Provides larger range and supports smaller diameter vessels. The interface in the installation environment has less impact on the instrument, making it easier to install and more suitable for mixing conditions.
- Display: A radar display provides real-time visualization of detected objects and their attributes, aiding in navigation, surveillance, and safety, enhancing situational awareness and decision-making.
- IP Rating: IP67 Ingress Protection for radar ensures it's sealed against dust, making it durable and reliable in outdoor and harsh environments, enhancing its longevity and performance.



1 ½" Threaded, T 85°C



3 ½" Threaded, T 85°C



1 ½" Threaded, T200°C



3 ½" Threaded, T 200°C

APPLICATIONS

- Water reservoirs
- WTP
- ETP and STP Plant
- Sea Water measurement
- Sewage and Wastewater Tanks
- Fresh Water Tanks
- Fuel and Oil Tank Monitoring
- Ballast Water Management
- Fresh Water Tanks
- Sugar Bins
- Food Grains and Edible Oil Tanks

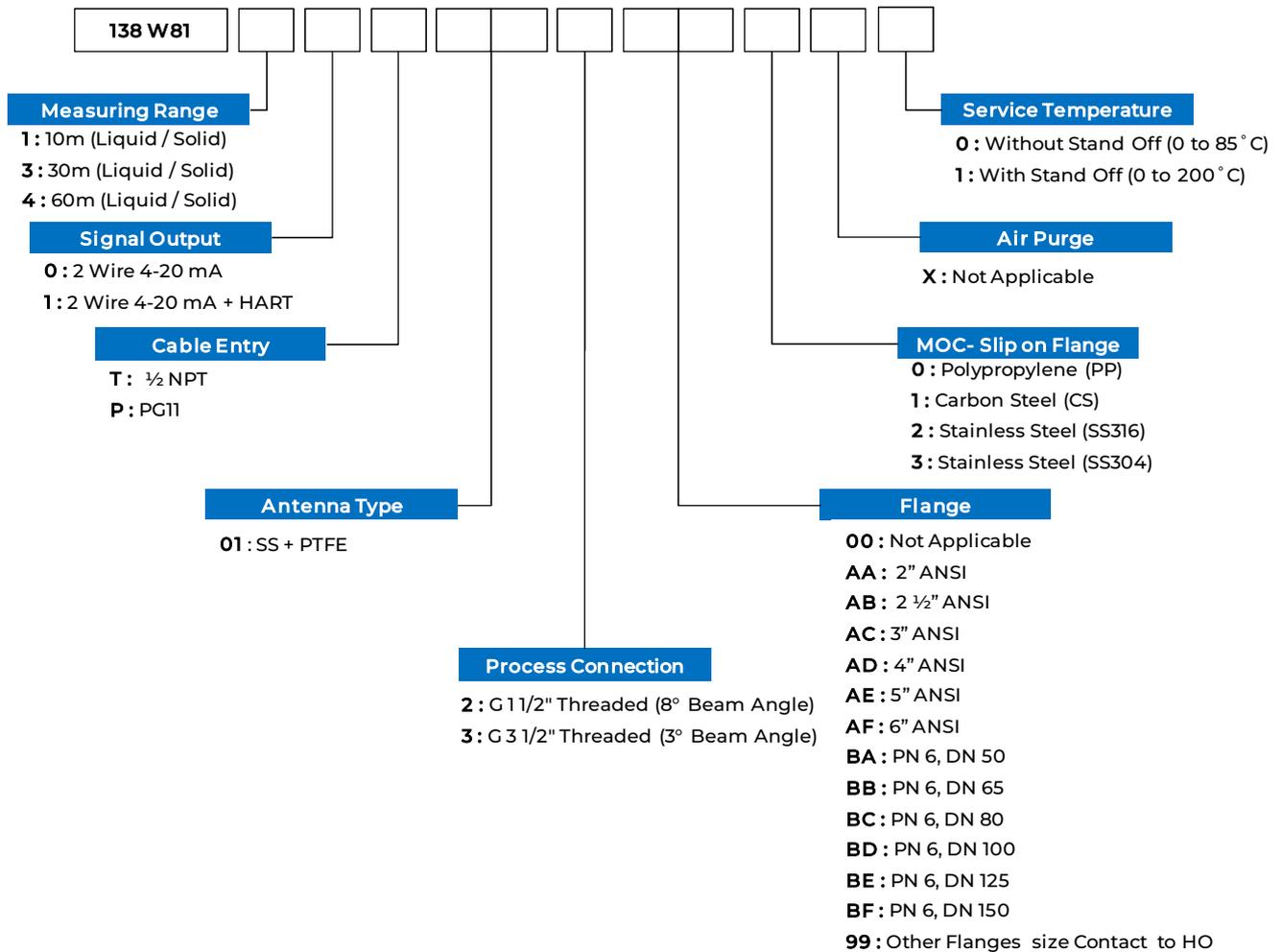
INDUSTRIES

- Food Industry
- Steel Plant
- Defense –Indian Navy
- Public Health Engineering-Water (PHE)

SPECIFICATIONS

- Power Supply: 2 Wire 24 VDC
- Updating Interval: 2 Sec
- Measuring Ranges (m): 10m,30m & 60m
- Dead band (mm) : 300
- Beam Angle : 3° & 8°
- Display: 128 X 64 dot matrix display
- Accuracy : ±2mm*
- Installation method: Threaded & Flanged
- Analog Output : 2 Wire, 4-20mA @600Ω load
- Digital Output : HART Communication (Optional)
- False echo suppression : Available
- Housing Enclosure : Aluminium
- Antenna Material : SS + PTFE
- Process Connection :
 - 1) G 1 ½ Threaded (Beam angle: 8°)
 - 2) G 3 ½ Threaded (Beam angle: 3°)
 - 3) Flanged
- Enclosure Protection class: IP67
- Process Temperature :
 - 1) 0 to 85°C
 - 2) 0 to 200°C
- Cable Entry :
 - 1) PG11
 - 2) ½" NPT

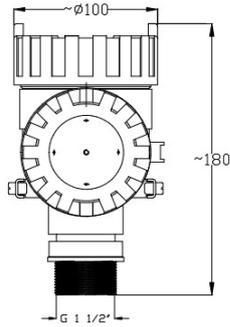
ORDERING CODE



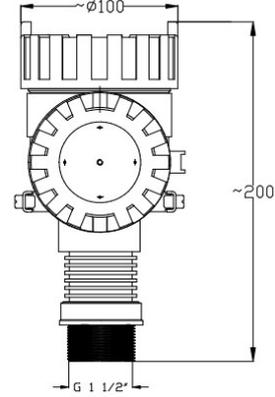
Note: Slip on flange AA, AB, AC, AD, AE, AF, BA, BB, BC, BD, BE and BF is available in Process Connection 1 1/2" Slip on flange AD, AE, AF, BD, BE and BF is available in Process Connection 3 1/2" threading.

***(Under Factory set conditions)**

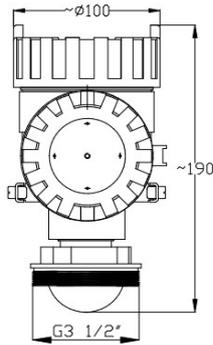
MECHANICAL DIMENSIONS



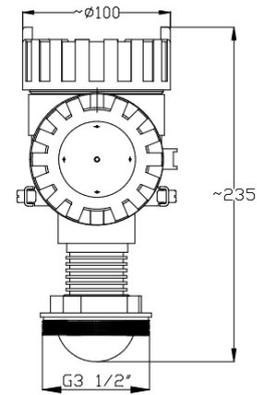
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3 ½" Threaded, T 85°C



3 ½" Threaded, T 85°C

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