

LEVEL MEASUREMENT

ProWave 80G Radar

138 W83

INTRODUCTION

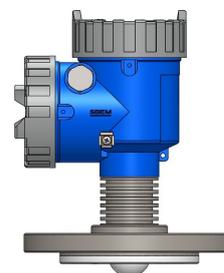
Introducing the ProWave80G Series, an advanced solution for precise level indication in both solids and liquids across diverse process applications. Operating at 80 GHz and utilizing Frequency Modulated Continuous Wave (FMCW) radar technology. The ProWave80G - W83 offers accuracy and reliability, with a maximum range of 60 meters. The ProWave80G - W83 is designed to support 2 wire applications, including 4-20mA 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.



T85°C, Beam Angle 8°



T200°C, Beam Angle 8°



T85°C, Beam Angle 3°



T200°C, Beam Angle 3°

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° (As per model Selection)
- Display: 128 X 64 dot matrix display
- Accuracy : $\pm 2\text{mm}^*$
- Installation method : Flanged
- Analog Output : 2 Wire, 4-20mA @600 Ω load
- Digital Output : HART Communication @250 Ω Load (Optional)
- False echo suppression : Available
- Housing Enclosure : Aluminium
- Antenna Material : SS + PTFE
- Process Connection : Flanged
- Enclosure Protection class : IP67
- Process Temperature :
 - 1) 0 to 85°C
 - 2) 0 to 200°C
- Cable Entry :
 - 1) PG11
 - 2) ½" NPT

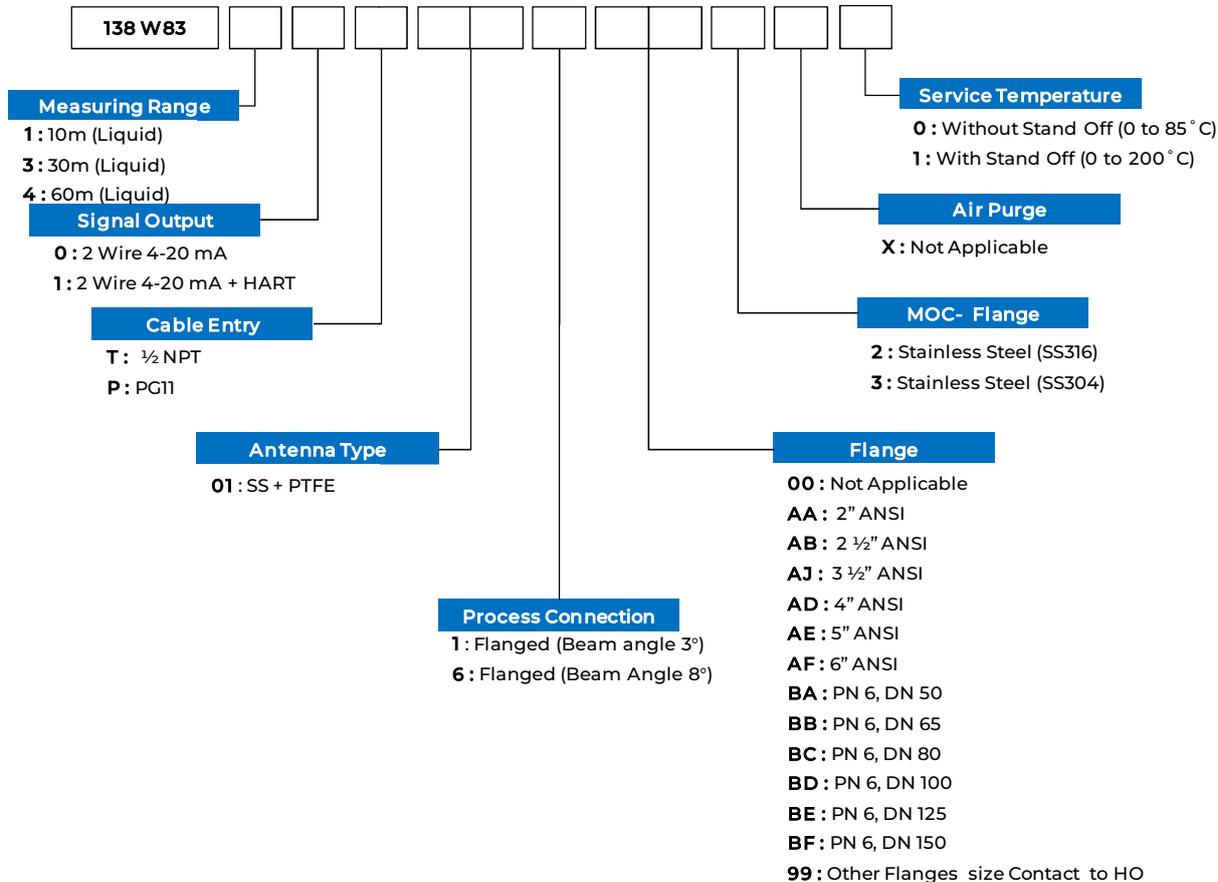
APPLICATIONS

- Acid Tank
- Acid Dosing
- H2SO4 Tanks

INDUSTRIES

- Power
- Chemicals & Fertilizer

ORDERING CODE

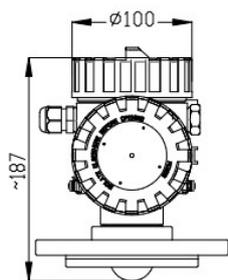


Note: Flanges AA, AB, BA and BB are available in Beam angle 8°.

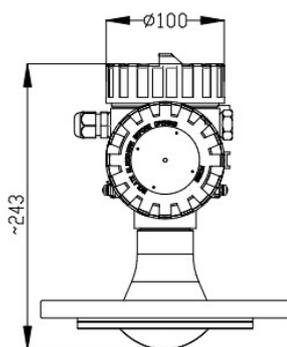
Flanges AJ, AD, AE, AF, BC, BD, BE and BF are available in Beam angle 3°.

*(Under Factory set condition)

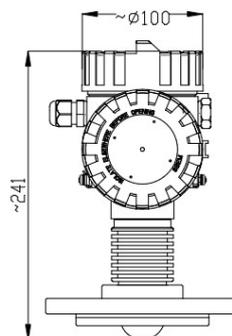
MECHANICAL DIMENSIONS



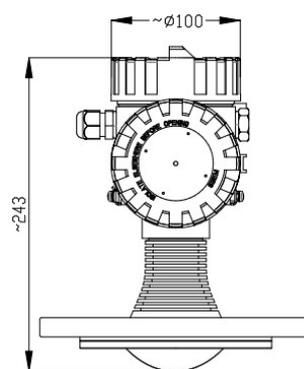
T 85°C, Beam Angle 8°



T 85°C, Beam Angle 3°



T 200°C, Beam Angle 8°



T 200°C, Beam Angle 3°

SBEM Pvt. Ltd.

Head Office & Works - Gat No.326, Shriram
 Nagar, Gaud Dara Road, Khedshivapur,
 Pune-412205

Email: sales@sbem.co.in

Website: www.sbem-india.com

Pune

pune@sbem.co.in

Mumbai

mumbai@sbem.co.in

New Delhi

newdelhi@sbem.co.in

Chennai

chennai@sbem.co.in

