

INTRODUCTION

The ProWave 80G 138 W84 is a high performance, non-contact level transmitter designed for precise measurements in various moderate corrosive Process industry applications. It uses advanced 80 GHz FMCW radar technology, ensuring accuracy with respect to the surrounding environmental conditions. The device offers a high measurement accuracy of ± 2 mm with a measuring range up to 30 meters and supports 2-wire systems, including 4-20 mA and 4-20 mA + HART communication protocols. The ProWave 80G 138 W84 offers 3° beam angle to enhance installation flexibility. Its design and reliable performance for a wide range of Acidic, Chemical and Fertilizer Industry applications.



SPECIFICATIONS

Parameter Name	Parameter Description
Measuring Range (m)	10 m, 30 m
Dead Band (mm)	300 mm
Beam Angle	3°
Power Supply	2-Wire 24 VDC
Accuracy	± 2 mm*
Updating Interval	2 sec
Display	128 x 64 Dot Matrix Display
Analog Output	2-Wire, 4-20 mA @600Ω load
Digital Output	HART 7 Communication (Optional)
Housing Enclosure	Aluminium
Antenna Material	Polypropylene (PP)
Process Connection	Flanged
Flange Material	Polypropylene (PP)
Enclosure Protection Class	IP67
Process Temperature	0°C to 85°C
Cable Entry	PG11, ½" NPT

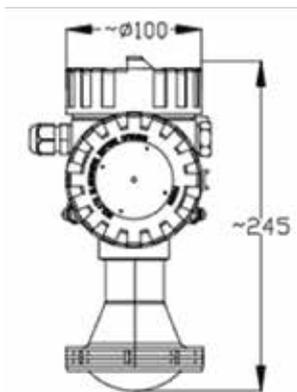
FEATURES & BENEFITS

- Precise level measurement
- HART-enabled
- Narrow beam angle
- IP67 ingress protection
- Support for moderate corrosive liquid level measurements

APPLICATIONS

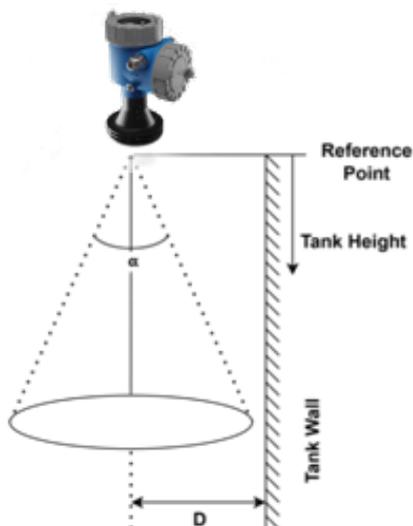
- Mild Acid Storage Tank
- Acid Dosing Tank
- H₂SO₄ Diluted Tanks
- Chemical Tanks at Powers Industries
- Food and Beverage
- Castic Soda / Alkali Tanks at Chemical & Fertilizer Industries
- Industrial Utility and Batch Process Vessels
- Efflunet Treatment Balancing Tanks

MECHANICAL DIMENSIONS



Standard	Size of Flange	Flange OD	No. of Holes	Center Hole Size
ANSI	4"	229	4	75.5
	5"	254	8	75.5
	6"	279.5	8	75.5
PN 6	DN 100	210	4	75.5
	DN 125	240	8	75.5
	DN 150	265	8	75.5

BEAM ANGLE



Tank Height (m)	Tank Wall 'D' (mm)
	$\alpha=3^\circ$
1	50
2	100
5	150
10	300
15	430
20	560
25	700
30	720

ORDERING CODE

138 W84

MR OPI CE AT PC SF MF AP

MR	Measuring Range	1 : 10 m 3 : 30 m	SF	Slip on Flange Type	XX : Not Applicable AG : 4" ANSI 150# AH : 5" ANSI 150# AI : 6" ANSI 150# BG : PN 6, DN 100 BH : PN 6, DN 125 BI : PN 6, DN 150 99 : Other Flanges Sizes, Contact HO
OPI	Output 1 (Signal Output)	0 : 2-Wire 4-20 mA 1 : 2-Wire 4-20 mA + HART	MF	MOC – Slip On Flange	X : Not Applicable 0 : Polypropylene (PP)
CE	Cable Entry	T : ½ NPT P : PG11	AP	Air Purge	X : Not Applicable
AT	Antenna Type	02 : Polypropylene (PP)			
PC	Process Connection	1 : Slip on Flange			

Notes:

*Under the factory set condition.

#Continuous development may necessitate changes without notice.

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About SBEM Pvt. Ltd.

For over 50 years of expertise, SBEM has built a strong reputation in Level measurement, Flow measurement, and Pressure measurement, integrating with the cloud-based IoT platform by gradually adopting and mastering new technologies to meet the changing needs of industries across India and the globe.

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