



Level Measurement & Control Solutions

GUIDED WAVE RADAR LEVEL TRANSMITTER

MICRO GUIDE 132 GWR (Solids & Liquids)

INTRODUCTION

Guided Wave Radar, Micro Guide 132 GWR is designed for industrial use in continuous level measurement.

PRINCIPLE OF OPERATION

The SBEM Guided Wave Radar Level Transmitter Micro Guide 132 GWR operates on the technique of **Time Domain Reflectometry**. Pulses are transmitted along a probe or "wave guide". When the pulses reach the material surface they are reflected back to the sensor electronics. The reflection is due to the difference in the dielectric constants of air and the process medium which causes change in the characteristic impedance of the probe. The time-of-flight i.e., time between transmitted and reflected pulse is measured. This time is directly proportional to the distance from the point at which the sensor is mounted on the top of the vessel to the material surface (level). The output from the electronics is continuously updated as the level of the material surface changes.

APPLICATION

- ▶ Bulk Solids like plastic granules, sugar, cement, grains, seeds, etc.
- ▶ Liquids like alcohols, ammonia, palm oil, mineral oil, lube oil, fuels, etc.

SPECIFICATIONS

Electrode	Rod	Rope
Electrode Length	3 m max.	30 m max.
Electrode Diameter	Φ10mm	Φ6 mm
Electrode Material	SS 316	
Accuracy	0.2% of Span	
Display	Graphical	
Housing	Cast Aluminium, Polyurethane painted, Dual Chamber, Weatherproof to IP-67	
Process Temperature	0°C to 150°C (With L51) OR 0°C to 200°C (With L54)	
Ambient Temperature	70° C max.	
Operating Pressure	≤ 40 Kg/cm ²	
Output	4-20mA, HART, 2 Wire	
Cable Entry	½" NPT	
Process connection	Threaded 1 ½" BSP (std.)	
Power Supply	28 VDC	



FEATURES

- ▶ Echo suppression for False Echo.
- ▶ Insensitive to Vapours, Pressure, Foam & Density.
- ▶ HART compatible.
- ▶ Adjustability of measurement from 0 to 100 span or 0 to 50 %.
- ▶ For material having dielectric constant 2 to 7
- ▶ Graphical display of echo curve.
- ▶ Dual chamber construction separates electronics from cable entries.
- ▶ Easy configuration & operation.
- ▶ No moving parts.
- ▶ Electrodes for conductive and non-conductive Duties also available- Refer LF-132 0801 & LF-132 0803

