

## Guided Microwave Level Transmitter



### Description

The guided Wave Radar level transmitter is designed for continuous level measuring of conductive or non-conductive liquids, pulps and solids. The GWR level gauge operates based on the well-known TDR (Time Domain Reflectometry) principle. Micro pulses are sent along a probe guide at the speed of light. As soon as the impulse reaches the surface of the medium, it is reflected back to the electronic module. Level distance is directly proportional to the flight time of the impulse. The reflected signal is dependent on the dielectric constant of the material. The feasibility of the measurement is  $\epsilon_r \geq 1.4$ . The TDR technology is unaffected by the properties of the medium as well as that of the space above it. Measurement is also unaffected by the change in the physical properties of the materials such as temperature, pressure, dielectric constant.

### Technical Data

TYPE	COMPACT
MEASURING VALUE	LEVEL, DISTANCE
CALCULATED VALUE	VOLUME, MASS
MEASURING RANGE	0.2M – 24M
OUTPUT SIGNAL	4-20mA
COMMUNICATION	HART
PROCESS TEMPERATURE	-30 °C ... +200 °C
AMBIENT TEMPERATURE	-20 °C ... +60 °C
INGRESS PROTECTION	IP67
PROCESS CONNECTION	THREADED, FLANGED AND SANITARY CONNECTION.