



Model RADAR-6115/6135

RADAR WATER AND SNOW LEVEL SENSOR

DESCRIPTION

The RADAR level sensor model **RADAR 6115/6135** provides distance measurements based on the running time of microwave pulses transmitted to and reflected from the surface of the water, snow or other liquid and solid surfaces.

Our **RADAR 6115/6135** Level sensor operates in the time domain, using a high pulse repetition frequency (PRF) and therefore it does not require FFT analysis, that characterizes FM or CW radars.

Pulse RADAR operates purely within time domain. Millions of pulses are transmitted every second and a special sampling technique is used to produce a "time expanded" output signal.

The Microwave transmitters are virtually unaffected neither by temperature nor atmospheric pressure, air density, winds or any other weather conditions.

The RADAR technology is intrinsically very accurate, also allowing a broad margin of programmable measurement ranges (up to 35 meters programmable), perfectly adapted to the site requirements.

GEO-CONNECT System for configuration and adjust in the field by means of a PC.



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Our RADAR level sensor has an accuracy of 2mm in the whole range for individual measurements, and 1 mm for averaged values when connected to our Data Loggers **METEODATA/HYDRODATA**.

This accuracy cannot be achieved by ultrasonic technology, as when the weather conditions vary, the ultrasound becomes more vulnerable to large errors and erratic readings.

SPECIFICATIONS

- Frequency: 26 GHz
- Range: 0-15m RADAR-6115
- (programmable): 0-35m RADAR-6135
- Resolution: 1mm
- Accuracy: ±2mm for individual measurements
±1mm for averaged values
- Response time: 0.6 seconds
- Output: 4-20mA, SDI-12
- Protection: IP68
- Supply Voltage: 9.6 to 36 Vdc
- Current Rating (active): <15 mA
- Operating Temperature: -40 ... +80 °C
- Storage Temperature: -40 ... +80 °C
- Humidity: 100%
- Standards Conformity: EMC: EN 61326-1, 2-3, 2-5
Emission: Class B
Immision: Industrial Area
- LVD: EN 61010-1, 2-030
- RED: EN 302729, EN 302372
EN 301489-1,17, EN 300328
- RoHS: EN 50581
- Configuration, Control, and Calibration: No setting, adjustment or calibration procedure is needed



KEY FEATURES

- ▶ NO Temperature effects
- ▶ NO Atmospheric pressure effects
- ▶ NO Wind effects
- ▶ NO Rain and Relative Humidity effects
- ▶ Up to 1mm accuracy in averaged values
- ▶ Measuring range up to 15 or 35 meters
- ▶ Very high stability
- ▶ Direct connection to **METEODATA/HYDRODATA** Data loggers for data storage and data transmission
- ▶ Low power consumption
- ▶ Fully capable of working in harsh outdoor weather condition and fully protected for saline conditions and salt spray prevailing at Coastal Regions