

6547

RADAR WATER LEVEL SENSOR



MODEL B



The 6547 Radar Water Level Sensor provides continuous water level measurement of water in rivers, streams, open waste water channels, storm water overflow tanks and pump stations. The 6547 is a radar sensor which provides accurate long term measurements of water level up to 8m range from the sensor.

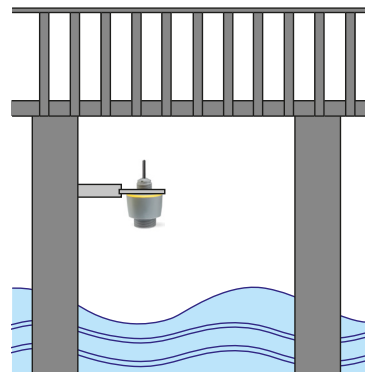
The radar sensor emits extremely short microwave pulses through the antenna. The emitted signal is reflected by the medium/water and then received as an echo by the antenna. The time between the emitted and received signal is proportional to the distance and is outputted as measured value.

The sensor is normally mounted vertically with a bracket mounted on a structure with the sensor pointing downwards.

The 6547 is almost maintenance-free due to non-contact measuring principle and is protected by a IP68 housing.

Radar readings are unaffected by change in temperature and pressure making this instrument ideal for use in difficult process conditions.

When used with a companion Unidata IP data logger, collected data is transmitter to a central Neon server where data can be viewed on the Neon Web server in near real time from any browser. Same data can be reported to other systems using email, ftp, and web services.



Sample of mounted sensor.

SPECIFICATIONS

PHYSICAL	
MATERIAL:	PVDF Enclosure IP68
SIZE:	Diameter 76mm. Length 109mm
WEIGHT:	1.5kg
OPERATING TEMPERATURE:	-40°C to 60°C

ELECTRICAL	
EXTERNAL POWER:	12V-35VDC
RANGE:	Standard 0m-8m
ACCURACY:	±5mm
FREQUENCY RANGE:	W-band (80GHz technology)
I/O:	4-20mA two wire
CABLE:	10m or more if required of 2 core + Kevlar relief wire.