

6547S

SDI-12 RADAR WATER LEVEL SENSOR



MODEL S



The 6547S SDI-12 Radar Water Level Sensor provides continuous water level measurement of water in rivers, streams, open wastewater channels, stormwater overflow tanks and pump stations. The 6547S is a radar sensor which provides accurate long term measurements of water level up to 15m 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 the measured value.

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

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

Radar readings are unaffected by the 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 transmitted 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.

SPECIFICATIONS

PHYSICAL SPECIFICATIONS	
MATERIAL:	PVDF Enclosure IP68
SIZE:	Diameter 76mm. Length 109mm
WEIGHT:	~1.5kg
OPERATING TEMPERATURE:	-40°C to 80°C

ELECTRICAL SPECIFICATIONS	
EXTERNAL POWER:	9V-32VDC
RANGE:	Standard 0m-15m
ACCURACY:	±2mm
FREQUENCY RANGE:	80GHz
I/O:	SDI-12
CABLE:	5m or more if required of 2 core + Kevlar relief wire