



Sensor Drive Satellite Level Tracking SDS 6110

Features

The Bintech Sensor Drive Satellite unit provides a versatile, self-contained, reliable solution for remote tank level measurement. Our Sensor Drive Satellite range offers many solutions for remote measurement and monitoring. The SDS 6100 range is based on high-end, highly reliable and accurate sensors coupled with a satellite communication module. To reduce even further its reliance on local infrastructure, a solar-powered version is available.



Satellite Communication Module

To transfer level measurement or switching alarms from remote location, our SDS range comes with a satellite transceiver, used to log data and reports via satellite and providing a reliable solution for long distance links in remote locations. For shorter links, please refer to our radio product, SDR 6010/6020.

The satellite host allows the user to retrieve data using a web browser. The satellite unit also provides at anytime the GPS coordinates of the current location of the sensor. This functionality is a key asset for management of a fleet of tanks, e.g. mobile tanks used for fuel delivery.

Satellite Communication Module:	
Manufacturer:	SkyWave
Website:	www.skywave.com
Model / layout:	IDP-680 (attached to side of Sensor Box)
Environment:	Outdoor
Satellite Service:	Inmarsat IsatData Pro, Two-way
Elevation Angle:	+20 / +90 degrees angle
Frequency:	Rx:1525.0 to 1559.0 MHz Tx:1626.5 to 1660.5 MHz
EIRP:	7.0 dBW
Power supply:	9V to 32V DC
Power consumption:	Max 850 mA / Sleep 100mA
GPS Acquisition Time:	16s / 36s
GPS Accuracy:	4m
Operating Temperature:	-40°C to 85°C
Interfaces:	4—Analogue 1—Digital In/Out 1—RS 485 1—RS232



Power

Various options are available for powering our remote Sensor Drives: 24VDC, 240VAC and a solar power supply. The solar power supply option provides a reliable solution for remote sites with no or unreliable power supply. The internal battery allows for up to 3 days of use with minimal solar charge.

Solar Power Option	
Solar Panel:	5W (300mm x 300mm x 200mm)
Battery:	12 VDC 7-211H
Autonomy:	Up to 3 days with low or no light

Level Sensor

The Sensor Drive Satellite can be fitted with our classic, simple and highly reliable Magnetic Float Switch.

This sensor is a contact level switch, offering up to 4 switching points with different switching actions to choose from.

As an alternative, we offer the well-proven, state-of-the-art ultrasonic level transmitters from Pulsar. These level transmitters provide the full range of functions used in continuous level measurement, i.e. volume calculation, history, datalogging, alarms,..). The satellite communication module establishes a permanent communication link with the level transmitter and provides almost real time level measurement, level alarms and instant access to measurement history.

Magnetic Float Level Switch	
Manufacturer / Model:	Bintech (ARV)
Measurement range:	For lengths of 0.3m up to 3m
Material / Rating:	Cast Alloy / Stainless Steel / IP65
Process Connection:	1" to 2" inch BSP (Other process connections as factory options)
Guide Tube:	12mm, 316SS
Operating Temperature:	-10°C to 60°C
Housing dimensions:	80mm x 80mm x 60mm
Medium:	Suitable for any liquids with S.G. > 800kg/m3

Ultrasonic Level Transmitter / Sensor	
Manufacturer / Model:	Pulsar (UK) / IMP3 - IMP6 - IMP10
Measurement range:	0 to 3m ; 0 to 6m ; 0 to 10m
Rating:	IP67
Process Connection:	1 1/2" inch BSP (Other process connections as factory options)
Operating Temperature:	-10°C to 60°C
Housing dimensions:	175 mm high x 130 mm diameter
Sensor face / Material:	PVDF version available (for fuel applications) / VALOX 357 / Foam Face
Medium:	Suitable for non vaporous liquids
Approval:	Intrinsically safe version of transducer is available.



Ordering Information



Sensor Drive Satellite
(solar powered version pictured)
Approximate Dimensions
(L x W x H) 300 x 300 x 200

Model code for the sensor drive Satellite unit :

SDS—6110—AAA—BBB—CCC

SDS—6110	AAA—POWER	BBB—SENSOR	CCC—OPTIONS
Sensor Drive Satellite 6110	SLR—Solar-powered	ARV—ARV Float switch	RMT—Remote Sensor
	DC—24 VDC	SON—Ultrasonic	SER2—up to 16 serial sensors
	AC—240 VAC	EX—BI-2000 Reed Chain	CUST—Custom Configuration
		OTH—Other (please specify)	



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