

Sensor Drive Radio Remote Level SDR 6010 / 6020

Features

The Bintech Sensor Drive Radio unit provides a versatile, self-contained, reliable solution for remote tank level measurement. Our Sensor Drive Radio range offers many solutions for remote level measurement and monitoring. The SDR 6000 range is based on high-end, highly reliable and accurate sensors coupled with a radio communication transmitter and receiver. To reduce even further its reliance on local infrastructure, a solar-powered version is available.

Need to add info about 1 to 1 and Tx Data approx every 20 minutes.



Radio Communication Module

To transfer level measurement or switching alarms from a remote location, our SDR range comes with a low powered radio communication module. The transmitter (SDR-6010) is used to transfer data to a receiver unit (SDR-6020) over a short to medium distance. For longer links or remote locations, please refer to our satellite product, SDS 6110.

Radio Communication Module Transmitter 6010

Material / Environment:	Powder Coated Aluminium / Outdoor IP65
Radio Link Frequency:	434MHz narrow band UHF 25 mW OR 151MHz VHF @ 100mW
Range:	Up to 400m Rural line of sight OR up to 1km Rural line of sight
Operating Temperature:	-10°C to 65°C
Power supply:	24V DC or 240V AC or solar powered
Power consumption:	40mA DC when transmitting data

Radio Communication Module Receiver 6020

Material / Environment:	Powder Coated Aluminium IP55
Radio Link Frequency:	434MHz OR 151MHz
Display (optional):	5 Digit LCD Programmable
Power supply:	24V DC or 240V AC or solar powered
Power consumption:	40mA DC when transmitting data



Level Sensor

The Sensor Drive Radio can be fitted with our classic, simple and highly reliable Magnetic Float Switch. This sensor is a contact level switch, offering 1 to 2 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,..). With any of these sensors, the radio communication module establishes a permanent communication link with the level transmitter and provides instant 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:	Foam face / PVDF face version (for fuel applications) / Valox 357
Medium:	Suitable for non vaporous liquids
Approval:	Intrinsically safe version of transducer is available.



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 approximately 20 days of use with minimal solar charge.

Solar Power Option	
Solar Panel:	5W (300mm x 300mm x 200mm)
Battery:	12 VDC 2.2AH
Autonomy:	approximately 20 days with low or no light

Ordering Information



Solar Drive Radio Transmitter
(ultrasonic switch version pictured)

Model code for Transmitter unit :

SDR—6010—AAA—BBB—CCC—DDD

Example : SDR—6010—SLR—TX434—SON—RMT

SDS—6010	AAA—POWER	BBB—RADIO	CCC—SENSOR	DDD—OPTIONS
Sensor Drive Radio 6010 Transmitter	SLR—Solar-powered DC—24 VDC	SLR—Solar-powered Tx434—434MHz @25mW	ARV—ARV Float switch SON—Ultrasonic	RMT—Remote Sensor CUST—Custom Config
	AC—240 VAC	Tx151—151MHz @100mW	EX—BI-2000 Reed Chain OTH—Other (please specify)	



Solar Drive Radio Receiver

Model Code for Receiver unit: SDR—6020—AA—BB—CC

Example : SDR—6020—DC—Rx434—DSP

SDR—6020	AA - POWER	BB - RADIO	CC - OPTION
Sensor Drive Radio 6020 Receiver	DC - 24 VDC AC- 240 VAC	Rx434—434MHz @25mW Rx151—151MHz @100mW	DSP - Display CUST - Custom Config



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