



Model:

sr-2
wireless

Industrial Applications



Product Name: Smart Receiver (Mk2)



Product Code:
SR2



The sr-2 is the second generation of the Hanwell Smart Receiver. It is a network enabled receiver, designed for collecting environmental monitoring data from multiple points within a site, or across multiple sites. In addition, it can be upgraded to a transceiver which both receives and retransmits the data. It uses standard TCP/IP communications protocols for speedy data handling. The network traffic generated is very low and data is automatically sorted and filed.

This multipoint operation can be further expanded, with the use of optional GPRS, and used on a larger national or international basis. See the diagram overleaf for some potential ways of using the sr-2, or contact Hanwell to discuss your site specific requirements.

In addition to receiving data from the rl-2000, rl-4000, rl-5000 and rl-8000 ranges of sensors, the unit can also read hard-wired sensors and, optionally, be fitted with up to eight on-board probes. Each sr-2 can handle data from up to 253 sensors, and up to 16 sr-2s can be run on a single system bringing it to a total of 4048 sensors. The sr-2 supports Hanwell's standard and extended transmission data formats.

The sr-2 logs all received data in its on-board 512kb memory. The Radiolog software continually interrogates the sr-2 for the most

recent data, and downloads the data according to user-defined logging periods to the server or operating PC. Software users can view live and historic data, produce out of spec and summary reports and set alarms on both the data levels and the rate of change.

In addition to the data readings from the sensors, the sr-2 can log the corresponding Received Radio Signal Indicators (RSSI) which reveal the strength of radio reception of each Sensor. As well as being logged, the RSSI is indicated on the front LCD along with other status information. An optional remote Receiver can be connected to improve radio reception in difficult areas.

The sr-2 is designed to be in constant communication with the software but has user-configurable fallback behaviour in the event of network or power failure. An on-board battery provides a UPS with 2.3A/hour life to carry it through up to 12 hours' power disruption (larger external UPSs are available as an optional extra).

Alarm relays are included: these can indicate that the readings are out of specification, and can be optionally set to indicate a network failure. A MS BUS connection allows the sr-2 to drive the Hanwell MS1000 environmental control system.

See diagram overleaf

Transmitter	¹ Not available in US, ² US only			
Dimensions	300 x 200 x 85mm			
Weight	1.2kg			
Power Supply Options	110V AC or 240V AC. On-board 12V battery back-up supplying 2.3A/hr			
Case Material(s)	Powder coated mild steel			
Operating Humidity Range	10...90% RH, non-condensing			
Operating Temperature Range	5...40C (Temperature compensated range)			
Radio Specification				
	FF ¹	F1 ¹	SF ²	HP ²
Radio Frequency	434.075 MHz	433.920MHz	433.875 to 434.650MHz in 25 KHz increments	Synthesized
Radio Power	10mW	10mW	10mW	Programmable
Radio Range	2 miles over open ground			
Outputs				
Alarm Outputs	1 x nominal 12V, 2 x changeover relays (energised when no alarms exist)			
MSBUS	4 core signal cable			
Accessories (e.g. mounting brackets, remote probe etc)				
Codes	Description			
RX-xx	Remote receiver – please specify the frequency required			
Y306-05-03	Thermistor probe on 5m cable with bare ends suitable for wiring into the sr-2's on-board probe inputs			
Y404-05-03	Humidity probe on 5m cable with bare ends, as above.			
Y405-05-03	Combined thermistor & RH probe on 5m cable with bare ends, as above			
ABR12/24	Alarm beacon, red strobe, 12/24V with bracket and 2m cable			
SR2-E-7.0-UPS	7.0Ah external wall mounted UPS			
SR2-E-15-UPS	15Ah external wall mounted UPS			



- DATALOGGERS
- CONTROL PRODUCTS
- TEMPERATURE
- RADILOGGERS
- HUMIDIFIERS/DEHUMIDIFIERS
- RADIO TELEMETRY

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Local Site

One or more sr-2's on a main site connected via LAN points



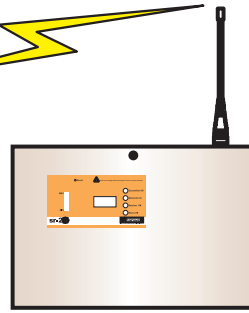
Remote Sites

One or more sr-2's from remote sites via LAN or WAN, for example, off-site

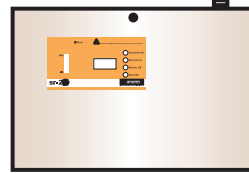


Remote Sites

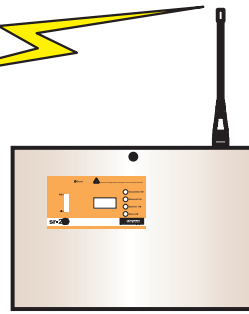
Non-networked site connected via modem



LAN



LAN
or WAN



Modem
Interface



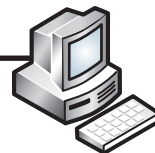
Network Server

Collects data from all sr-2's and is interrogated by Network Users



Network User

For example, main system administrator



Network User

For example, someone needing weekly reports



Network User

For example, a home worker

One system can comprise up to 16 separate sites but all data is treated the same way.



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