sr2 receiver

Product Code	SR2-E-P4 (UK)
	SR2-E-P5 (EU)
	SR2-E-P6 (US)
Series	sr2

Typical Applications
° Distributed monitoring over large sites
° Nationwide monitoring over different geographical locations

Instrument
Dimensions: 300 x 200 x 85 mm
Weight: 1.2kg
Power Supply: 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: 0-100% non condensing
Operating Temperature range: 5°C - 40°C (Temperature compensated range)

Outputs
Alarm Outputs: 1 x nominal 12V, 2 x changeover relays (energised when no alarms exist)
MSBUS: 4 core signal cable

Accessories

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

The sr2 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. See the diagram overleaf for some potential ways of using the sr2, or contact Hanwell to discuss your site specific requirements.

In addition to receiving data from the ml2000 and ml4000 ranges of sensors, the unit can also read hard-wired sensors and, optionally, be fitted with up to eight on-board probes. Each sr2 can handle data from up to 253 sensors, and up to 16 sr2s can be run on a single system bringing it to a total of 4048 sensors. The sr2 supports Hanwell's standard and extended transmission data formats.

The sr2 logs all received data in its on-board 512kb memory. The Radiolog software continually interrogates the sr2 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 sr2 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 sr2 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 sr2 to drive the Hanwell ms1000 environmental control system.

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

LAN

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

Network User
For example, main system administrator

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

LAN or WAN

Network User
For example, someone needing weekly reports

Remote Sites
Non-networked site connected via modem

Modem Interface

Network User
For example, a home worker

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