

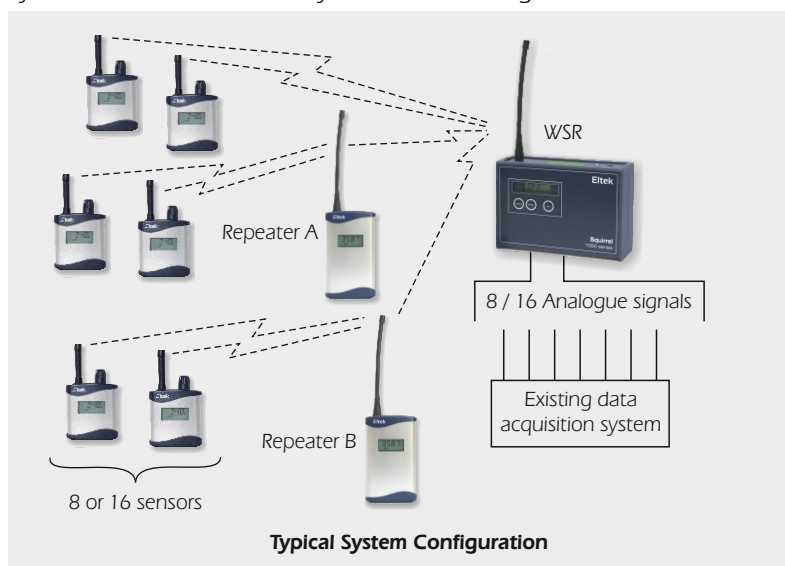
GenII WSR Telemetry receiver system

Eltek

SPECIALIST DATA LOGGERS

The Wireless Sensor Receiver together with Eltek's range of GenII telemetry transmitters enables users to integrate radio connected sensors with their existing data loggers or data acquisition systems with ease.

Radio connected sensors offer an unrivalled flexibility to create data gathering systems without the encumbrances of wires. Often users have invested heavily in conventional loggers or other data acquisition system. For the first time Eltek's WSR enables users to integrate wireless connected systems to their existing systems, using field proven GenII transmitters and sensors providing accurate measurement without sacrificing reliability or performance. The WSR system is now offered as a system in its own right.



WSR wireless sensor system

- Up to 16 Sensors values (e.g. temperature, humidity, light, voltage or current) are presented as corresponding 0-5VDC or 4-20Ma outputs on the WSR receiver, allowing quick, easy and accurate connection to existing data gathering systems.
- Uses standard license exempt frequencies
- Long distance assured - up to 1Km depending on installation
- Uses Eltek's field proven and readily available series of GenII transmitters
- Ideal for permanent or temporary applications e.g.
 - temperature mapping
 - research projects
 - difficult to wire environments
- Continue to use your preferred analysis software

WSR features

- Built in rechargeable battery pack for more than 24 hour operation should AC supply fail
- Power supply for 110 to 250VAC included
- Built in display for quick review of received sensor values
- Supplied with "WSR" configuration software, easy to create authorised transmitter list and scaling.
- Can be used with multiple repeaters (type RP250GD)
- SMA antenna socket for attached antenna or external antenna options
- Compact enclosure free standing or wall mounting, easy to use rising cage instrumentation connectors.
- Versions available to provide 8 or 16 4-20mA output or 8 or 16 0-5VDC output.

Transmitter features

- Sensors can be integral, external or both
- Inputs for voltage, current, light, pressure differential
- Versions available (type "TMET") for use with weather sensor e.g. Vaisala WXT510 or windspeed and direction sensor e.g. Vaisala WMT50
- Battery powered using standard alkaline batteries
- 5 year battery endurance (transmitter interval set to 5 minutes)
- Transmitter interval can be set from 1sec. to 4 hours
- For comprehensive list of transmitter types available see brochure TD1079

Repeater features

- Channel activity reporting
- Built-in rechargeable pack for more 24 hour operation should AC fail
- Programmable authorised transmitter list.



WSR Wireless Sensor Receiver system

Specification

Receiver frequency:	434.225Mhz , 914.5Mhz or other (contact Eltek)
Sensitivity:	-110dbm
Useable sensitivity:	-117dbm
Compliant to:	EN300 220-1
Ambient temperature:	-10 to +55°C
Humidity:	Up to 95% (non condensing)
Power supply requirements:	12V DC at 500mA
AC power supply provided:	100/250AC to 12VDC type MP12U
Built in rechargeable batteries:	7.2V (6 x NiMH 1.8Ah pack)
Battery reserve:	>24 hours
Dimensions (ex. Antenna):	D 41mm x W 80mm x H125mm
Weight:	500g inc. batteries
Antenna connector:	SMA (socket)
programming connector:	3.5mm stereo jack socket (socket) Uses LCTX3 cable for programming
Analog outputs connector	rising cage screw connector

System capacity

Type	Output configuration
WSR8V	8 x 0-5VDC
WSR16V	16 x 0-5VDC
WSR8C	8 x 4-20mA
WSR16C	16 x 4-20mA
WSR16VS	16 x 0-5VDC*
WSR8C10mA	8 x 0-10mA
WSR16C10mA	16 x 0-10mA

The WSR is not suitable for use with event or pulse transmitters.

*For use with GC/GD10 and GC/GD13E only. Provides ranges of 0-5VDC which correspond to 0-50°C / 0-100% on the transmitter.

Antenna options

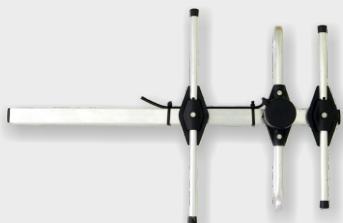
UHFflexi/SMA standard quarter wave whip



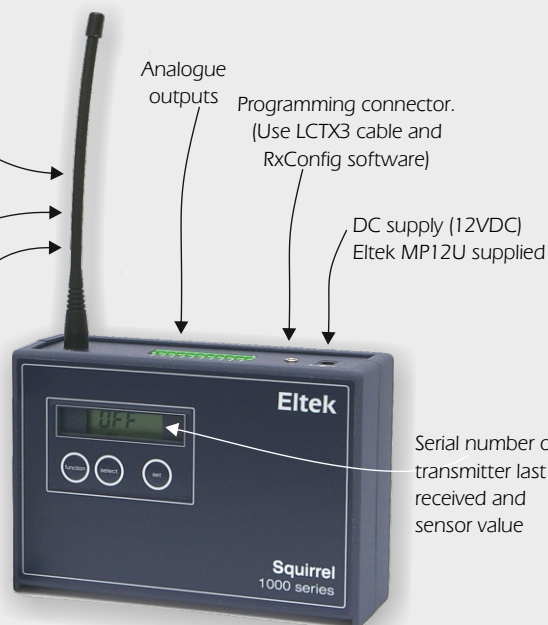
LW-ANT/SMA – lightweight indoor or external dipole antenna



Eltek supplied Yagi directional antenna– specified as required.



Receiver connections and display

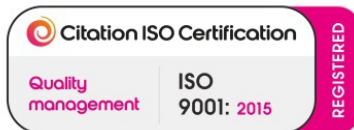


Due to our policy of continuous improvement specifications may change without prior notice. Eltek believes that all information declared is correct at the time of issue, no liability is accepted for errors and omissions.

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Guarantee Equipment manufactured by Eltek is guaranteed against faulty materials or workmanship for three years. For repairs carried out under guarantee, no charge is made for labour, materials or return carriage.



Certificate No:96972003

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