

## Technical Specification

### Common Specifications to System

<b>Environment</b>	Ambient temperature: -10 to 55°C Humidity up to 95% (non condensing)
<b>Frequency</b>	Licence exempt UHF. Other frequency bands available including VHF e.g. 173.250Mhz and 914.500Mhz
<b>RF Power</b>	Compliant to licence conditions
<b>Compliant to</b>	ETSI EN 300-220-1
<b>Radio System</b>	Frequency Modulation
<b>Radio Protocol</b>	Proprietary (15 sensor maximum per transmitter)

### RX250 Receiver Logger

<b>Number of channels</b>	250 maximum (a channel is the equivalent to a sensor input)
<b>Number of Transmitters</b>	125 maximum
<b>Memory</b>	Non-volatile 256k readings is standard, optional expansion up to 2Mb
<b>Power Supplies</b>	External: 12V DC at 500 mA Internal: six size AA nickel metal hydride rechargeable cells
<b>Backup Battery Life</b>	24 hours operation from a full charge
<b>Clock Accuracy</b>	1 second/day @20°C
<b>Physical Details</b>	Dimensions: D 60mm x W 180mm x H 120mm Weight (including batteries): 1 kg. Material: ABS - blue suede finish
<b>Computer/ modem Interface</b>	RS232C up to 38400 baud. 2 serial interfaces are available.
<b>PC Interface</b>	Connector 6 pin female mini-DIN
<b>Connectors</b>	SMA antenna connector – can be used with supplied deatchable antenna or optional external antenna
<b>Indicators</b>	Warning of low battery at transmitter, warning of invalid reception Confirmation of valid reception
<b>User controls and LCD display</b>	3 button keypad with 2 line 40 character display for monitor and set-up and data down load control
<b>Options</b>	Models available with Alarms and SMS texting.

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<b>Software</b>	Darca Plus system set-up and download software with graphing, scheduling and text messaging.
<b>Communications options</b>	Ethernet, GSM and USB connectivity available as options

### RP250GL Repeater

<b>Controls and Indicators</b>	There are no user controls. (A button is accessible through the rear cover to power down the unit to prevent discharge of internal batteries) A status LED on the top panel is provided.
<b>Connectors</b>	SMA antenna connector – can be used with supplied detachable antenna or optional external antenna External 12VDC supply 2.1mm Jack socket
<b>Configuration</b>	Can be used in "radial" or "tandem" applications
<b>Physical Details</b>	Dimensions: D 41mm x W 80mm x H 130mm Weight (including batteries): 450 grams Case: drawn aluminium with midnight blue moulded plastic end caps.
<b>Power Supplies</b>	External: 12V DC at 500 mA Internal: six size AA nickel metal hydride rechargeable cells
<b>Backup Battery Life</b>	72 hours operation from a full charge
<b>Wall bracket</b>	Built-in "joggle-fit" tamper resistant wall fixing. An optional wall bracket provides secure fixing.

### Transmitters

<b>Controls</b>	A concealed switch accessed through the rear cover enables the transmitter to be set in test mode or switched on/off.
<b>Indicator</b>	Status LED
<b>Connectors</b>	SMA antenna connector – can be used with supplied internal antenna or optional external antenna
<b>Types</b>	Refer to the transmitter type table in <a href="http://www.eltekdataloggers.co.uk/transmitter.shtml">www.eltekdataloggers.co.uk/transmitter.shtml</a>
<b>Battery</b>	4 x AA Alkaline
<b>Battery Life</b>	More than 5 years (at 5 minute transmit interval)
<b>Resolution</b>	12 bit – 16 bit
<b>Channel options</b>	1,2,4 and 8 (sensor inputs)
<b>Case Dimensions</b>	Compact version (GC-) 41 x 80 x 99 mm (includes probe turret) Standard version (GS-) 41 x 80 x 104 mm, Extended version (GL-) 41 x 80 x 125mm
<b>Construction</b>	Drawn aluminium with midnight blue moulded plastic end caps.
<b>Wall bracket</b>	Built-in "joggle-fit" tamper resistant wall fixing. An optional wall bracket provides secure fixing.

