

# GenII Transmitter type GD47

## Product Preview

# Eltek



The GD47 transmitter is a self contained air quality monitoring transmitter, with built in sensors for RH, temp and CO2 (0-5000 ppm) for use with:-

GenII - Telemetry monitoring system  
WSR – Wireless Sensor Receiver system  
or  
RC250 – Telemetry receiver system

The transmitter incorporates a combined RH and Temp sensor and NDIR (infrared) sensors. All sensors are interfaced digitally to ensure fast and accurate measurement, requiring no analogue adjustment. Calibration values are stored in the transmitter, in addition the CO2 sensor includes an daily auto calibration feature. The transmitter is powered from an external 12VDC supply (type MP12U) and is equipped with built-in rechargeable batteries to sustain operation for up to 100 hours in the event of AC mains supply interruption. In addition availability of the external supply is continuously monitored and is presented as a channel at e.g. the logger. This means an AC power failure can be investigated or alarmed before the internal batteries become discharged.

An LCD scrolls through all input values, updated at the configurable transmit interval.

GD47 is compliant to EN300-220-1.  
Operating frequency – 434.225Mhz (other frequencies available)  
Battery type – 7.2V (1600mAh) Ni MH  
Environment rating : IP40

Input type and specification:

### CO2

Accuracy at +20 °C : 0-5000ppm <  $\pm$  (50ppm + 3 % of measured value.)  
Temperature dependence: typically 2ppm CO2/ °C over the range 0 to +50 °C  
Operational temp range : RH 5 to 95% non condensing : -10 to +50 °C  
(Functional at -20 °C)

### Relative Humidity

Range: 0-100% Resolution 0.1%,  
Accuracy RH:  $\pm$  2% (10 to 90% RH),  $\pm$  4% (0 to 100% RH),

### Temperature

Accuracy:  $\pm$  1.0°C (-20°C to 65°C ),  $\pm$  0.4°C (-5°C to 40°C )

### Power Supply

Type MP12U AC100/250VAC