

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
- RC250 – Telemetry receiver system

Key Features



The transmitter incorporates a combined RH and Temp sensor and NDIR (infrared) CO₂ sensor. All sensors are interfaced digitally to ensure fast and accurate measurement, requiring no analogue adjustment. Calibration values are stored in the transmitter and the CO₂ sensor includes a 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. Availability of the external supply is continuously monitored and can be presented as a channel of data. This means an AC power failure can be investigated or alarmed before the internal batteries become discharged.

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

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

Input type and specification

CO₂

Accuracy at +25 °C, 1013mBar: 0-5000ppm < ± (50ppm + 3% of measured value)
Temperature dependence: typically 2ppm CO₂/°C over the range 0 to +50 °C
Pressure dependence: 0.14% of measured value / mBar deviation
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: ± 2% (10 to 90% RH), ± 4% (0 to 100% RH),

Temperature

Accuracy: ± 0.4°C (-5°C to 40°C), ± 1.0°C (-20°C to 65°C), ± 0.5°C (5°C to 45°C)
Resolution: 0.1°C

Power Supply

Type MP12U AC100/250VAC

Eltek

Specialist Data Loggers
Eltek Ltd, 35 Barton Road, Haslingfield
Cambridge, CB23 1LL, England
Tel: +44 (0) 1223 872111
Fax: +44 (0) 1223 872521
email: sales@eltekdataloggers.co.uk
http://www.eltekdataloggers.co.uk

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