GENII TELEMETRY TRANSMITTERS

The Eltek Genll series is a new range of telemetry products providing reliable radio data logging for a wide range of users and applications. Sensors can be located almost anywhere, giving a system which is simple to install and use.

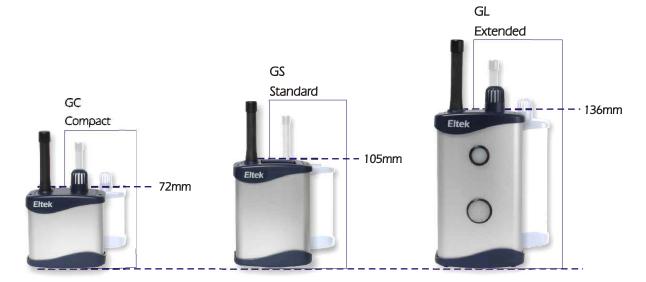


Easy to use customised data loggers

Eltek's telemetry transmitters are designed to complement each other, sharing a common case style, RF specification, battery system and choice of antennas.

They offer an unequalled range of input types that includes temperature, humidity, light, voltage, current, differential pressure and other customised inputs. This choice gives the system-designer a ready solution to a diverse range of applications.

Case Types



Common Specifications

RF specification RF Power Environment specification: Compliant to EN300-220

Actual Humidity

Environmental rating Dimensions (footprint) Height and Weight Battery endurance

Transmission Interval range

Indicator
Controls (concealed)

Antenna socket Tamper resistant wall bracket available. EN300-220 10mw

-10 to +55°C -30 to +65°C

Up to 95% non condensing IP40

78 x 41mm

(Model dependant)

> 5 years

(interval set to 5 minutes)

1 sec to 4 hours Transmit active

On/Off Test mode SMA

RHT10-D Probe

Dimensions
Diameter 10mm
Length ex. Connector 66mm
Lead 1M to 5M
Powered from TX

The Eltek RHT10-D is a compact, stainless steel, precision humidity and temperature probe. A detachable probe head houses a calibrated sensor. Up to 5 m cable. Designed for use with the Eltek GS-13 telemetry transmitter.

Transmitter Types Available

Built in sensors

GC-05 1 x temperature

GC-10 1 x temperature and 1 x humidity

GL-70 1 x temperature, 1 x humidity,

1 x ultraviolet and 1 x visible light

GS-84 1 x temperature, 1 x humidity and 1 x differential air pressure.

Combination of built in and external sensors

GS-11 Built in temperature and humidity with input for 1 x external thermistor probe

Inputs for external temperature probes

Thermocouple inputs (type K or T)

GS-21 1 x input

GS-24 4 x inputs

Thermistor inputs

GS-31 1 x input

GS-32 2 x inputs

GS-34 4 x inputs

GS-38 8 x inputs

RTD (Pt100 platinum resistance inputs)

GS-51 1 x input

GS-52 2 x inputs

Inputs for combination temperature and humidity probes

GS-13 2 inputs, use with Rotronics Hygroclip or Eltek RHT10-D temperature and humidity probe

Inputs for voltage and current

GS-41 1 x input

GS-42 2 x inputs

GS-44 4 x inputs

Mixed input transmitter

GS-43 1 x voltage or current and 1 x temperature (thermistor)

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Please also see section 'Common Specification' overleaf.

Built-in Temperature

GC-05

Built-in temperature

Range: -30 to +65°C Resolution: 0.1°C

Accuracy: ±0.5(-10 to +55°C)



Built-in temperature and humidity

Temperature

Range: -30 to +65°C Resolution: 0.1°C

±0.4°C(+5 to +40°C) Accuracy:

±1.0°C(-20 to +80°C)

Relative Humidity

0-100% Range: Resolution: 0.1%

±2%(10 to 90%Rh) Accuracy:

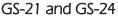
±4%(0 to 100%Rh)

GS-11

Built-in temperature and humidity and input for thermistor temperature

Temperature (thermistor) as GS-31 Temperature and humidity as GC-10

External Temperature



External thermocouple temperature

K or T

Range: -200 to 200°C Resolution: 0.1°C/0.2°C ±0.3°C Accuracy:

GS-31, GS-32, GS-34 and GS-38 External thermistor temperature

-50 to +150°C Range: Resolution:

0.05°C (-5 to +75°C) 0.1°C (-25 to +100°C) 0.2°C (-40 to +125°C)

±0.1°C (-5 to +75°C) Accuracy:

±0.2°C (-25 to +100°C)

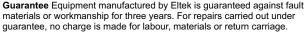
±0.4°C (-40 to +125°C)

GS-51 and GS-52 External platinum resistance temperature

Pt100 2 or 4 wire Type: Range: -100 to 200°C Resolution: 0.1°C

±0.3°C Accuracy:

Guarantee Equipment manufactured by Eltek is guaranteed against faulty materials or workmanship for three years. For repairs carried out under





Voltage and Current



GS-41, GS-42 and GS-44 Inputs for voltage or current

Range 0-1V DC Accuracy Resolution 0.25mV ±0.5mV 0-10V DC ±5mV 2.5mV 0-20mA DC 20uA ~5uA 4-20mA 0.1% 0.05% Excitation: 12 or 5V DC at 50mA maximum (internally selectable)

GS-43

Voltage or Current and temperature inputs

Voltage or current as GS-41 Temperature (thermistor) as GS-31

Light



GL-70

Built in ultraviolet and visible light with temperature and humidity

Temperature and humidity as GC-10

Visible Light:

Range: 0-4,000 Lux

(resolution 0.1Lux) 0-200 KLux (resolution 0.01Klux)

Ultra Violet light:

0-5000mW/M² Range: 0-10,000µW/Lumen

Pulse / Event



GS-62

Pulse or event inputs - Voltage free or digital

Pulse width: >500uS Digital high/low: >4V/<1V 250Hz Max pulse rate: Max pulse count: 2¹⁶ (65,535)

Air Pressure

GS-84

Built-in differential air pressure with temperature and humidity

Temperature and humidity as GC-10

Differential air pressure: 0-50-500 Pascal (typically 1% error)

Illustrations not to scale.



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