CaTeC

The Eltek GenII 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.

SPECIALIST
DATA LOGGERS

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

GL Extended

GS Standard

GC Compact

136mm

105mm

-72mm

Common Specifications

RF specification	EN300-220
RF Power	10mW
Environment specification:	
Compliant to EN300-220	-10 to +55ºC
Actual	-30 to +65ºC
Humidity	Up to 95% non condensing
Environmental rating	IP40
Dimensions (footprint)	78 x 41mm
Height and Weight	(Model dependant)
Battery endurance	> 5 years
	(interval set to 5 minutes)
Transmission Interval range	1 sec to 4 hours
Indicator (red LED)	Transmit active
Control (concealed)	On/Off
	Test mode
Antenna socket	SMA

Tamper resistant wall bracket available.

RHT10-D Probe

The Eltek RHT10-D is a compact and robust stainless steel, precision humidity and temperature probe. The detachable probe head houses a calibrated sensor. Designed for use with the GS-13 transmitter.

Specifications:
Temperature
Range: -40 to +85ºC
Resolution: 0.1ºC
Accuracy:
±0.4ºC(+5 to +40ºC)
±1.0ºC(-20 to +80ºC)

Relative Humidity
Range: 0-100%
Resolution: 0.1%
Accuracy:
±2%(10 to 90%Rh)
±4%(0 to 100%Rh)

Dimensions - probe only
L 66mm x Dia 10mm
weight: 18g

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-34   4 x inputs
- GS-32   2 x inputs   GS-38   8 x inputs
- GC-12   2 x inputs (reduced range)

  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 x inputs, use with Rotronics Hygroclip or Eltek
        RHT10-D temperature and humidity probe
- GS-14   GS-13 with input for 1 x external thermistor probe

Inputs for DC 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)

Inputs for Pulse or Events
- GS-61   8 x event inputs e.g. door openings
- GS-62   2 x pulse inputs e.g. energy measurement

GENII TELEMETRY TRANSMITTERS

Eltek
S P E C I A L I S T
D A T A   L O G G E R S

Please also see section 'Common Specification' overleaf.

Built-in Temperature

GC-05
Built-in temperature

Range:	-30 to +65ºC
Resolution:	0.1ºC
Accuracy:	±0.5ºC(-10 to +55ºC)

GC-10
Built-in temperature and humidity

Temperature
Range:	-30 to +65ºC
Resolution:	0.1ºC
Accuracy:	±0.4ºC(+5 to +40ºC)
	±1.0ºC(-20 to +80ºC)

Relative Humidity
Range:	0-100%
Resolution:	0.1%
Accuracy:	±2%(10 to 90%Rh)
	±4%(0 to 100%Rh)

GS-11
Built-in temperature and humidity
and input for thermistor temperature

Temperature (thermistor) as GS-12
Temperature and humidity as GC-10
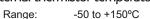
External Temperature

GS-21 and GS-24
External thermocouple temperature

Type:	K or T
Range:	-200 to 200ºC
Resolution:	0.1ºC/0.2ºC
Accuracy:	±0.3ºC

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

Range:	-50 to +150ºC
Resolution:	0.05ºC (-5 to +75ºC)
	0.1ºC (-25 to +100ºC)
	0.2ºC (-40 to +125ºC)
Accuracy:	±0.1ºC (-5 to +75ºC)
	±0.2ºC (-25 to +100ºC)
	±0.4ºC (-40 to +125ºC)

GC-12 Basic external thermistor

Range:	-40 to +70ºC
Resolution:	0.1ºC (-15 to +40ºC)
	0.3ºC (-36 to +70ºC)
Accuracy:	±0.2ºC (-15 to +40ºC)
	±0.6ºC (-36 to +70ºC)

GS-51 and GS-52
External platinum resistance temperature

Type:	Pt100 2 or 4 wire
Range:	-100 to 200ºC
Resolution:	0.1ºC
Accuracy:	±0.3ºC

Voltage and Current

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

Range	Accuracy	Resolution
0-1V DC	±0.5mV	0.25mV
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:
Range: 0-5000mW/M²
0-10,000µW/Lumen

Pulse / Event

GS-62
Pulse inputs - Voltage free or digital

Pulse width:	>500uS
Digital high/low:	>2.5V/<1V
Max pulse rate:	250Hz
Max pulse count:	2^{16} (65,535)

GS-61
Event inputs - Voltage free or digital

Digital high/low:	>2.5V/<1V

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.

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.

CE

QMS ✓
ISO 9001
REGISTERED FIRM

CaTeC
☎0174 272330 🖷0174 272340
✉ info@catec.nl
www.catec.nl