

G4C REMOTE MONITORING

G4C is a Remote Monitoring Unit (RMU) derived from the already available G2 / G4 family. It is a remotely controlled data logger, built to suit typical test-posts, conceived and developed specifically for the UK market. Based on low consumption technology, it is powered by long life lithium batteries allowing an autonomous on-site working life of around 48 months, or by mains power or a solar panel with battery backup to keep it operative even in the absence of an external power supply.

Its management can be done locally, using a connection to a computer through Bluetooth 4.0 or MiWi wireless connectivity, or remotely, through GSM/GPRS /UMTS (2G/3G/4G) connection.



TECHNICAL SPECIFICATION

Measurement channels	5 configurable measurement channels, galvanically insulated, with 2 KHz sampling rate
Input impedance	10 MOhm (standard) during measurement Open circuit at all other times
Accuracy	0.02% rms on DC range
Voltage range	Direct current (DC) and alternating current (AC) measurements, simultaneously possible on each channel ± 500 mV – DC ± 20 V – DC ± 50 V – DC ± 100 V – DC
Shunt measurement	Up to 500mV

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BATTERY LIFE

Operating life	By means of lithium batteries with intrinsic autonomy of at least 48 months (size D batteries distributed in pack)
Alternative	By means of an external source: Solar Panel (12V/24V) Mains (with a 12V AC/DC adapter)

OPERATIONAL DATA

Dimensions	127 x 85 x 76 mm, suitable for both plastic and concrete M28 test posts
Operating temperature	20°C ÷ + 60 °C
Protection	Housing impact-resistant made of ABS, IP67 protection degree / DIN EN 60529
Lightning and surge protection	Impulsive transient protection 8/350uS > 5KV

DATA SAMPLING

Data sampling	Sampling period of 1 second, with the following recorded values Absolute minimum value with date and time of occurrence Absolute maximum value with date and time of occurrence Average value over the sampling period Mean square deviation Mode of the samples Number of values outside admitted range Total time of permanence outside admitted range
Instant off logging	Instant off cycles (>1ms intervals), with Eon and E-off coupon logging
Transmission rate	Detailed data (up to 86,400 samples), upon request Daily summary, once per day
Storage	Up to 86,400 samples per day stored in a cyclic queue of 7 to 62 days depending on configuration Daily summary data stored for a period of 365 days