

G4C-PRO

Remote monitoring of cathodic protection, wherever you are

The G4C-PRO is the device of the G4C family suitable for every cathodic protection monitoring application. It has 5 galvanically isolated measurement channels with which to make all cathodic protection monitoring measurements: ON potential, AC interference, junction current (shunt), power supply or drain current (AC and DC), instant-off potential on coupons, polarisation current, ground or tube-rail potentials. It can be powered by battery or by external power supply (solar or mains), features that allow it to be used on complex measuring points (e.g. joints), rectifiers, AC or DC drains. Measurements are taken by the device on a continuous basis and then processed in the daily report which provides comprehensive information on the evolution of measurements and of out-of-threshold over 24 hours. Prepared (with accessories) for remote control and/or cyclical interruption of rectifiers.





A tailor-made solution for the protection of your network

AC/DC MEASURES **ON THE SAME CHANNEL**

5 galvanically isolated measuring channels on which both DC and AC measurements can be made on the same physical channel, with full scale selectable according to the type of signal measured.

INSTANT-OFF **ON COUPONS PER SECOND**

Integrated solid-state switch for instant-off measurement on the coupon per second and measurement cycle parameters configurable on a millisecond basis, also for overprotection verification. Complies with the specifications of ISO 22426.

MEASURES PER SECOND **ON REQUEST**

Frequency measurement per second on all channels. Storage of the daily log of 86,400 samples in a cyclic queue for a duration of 7 to 62 days, depending on the enabled channels, and possibility of full transmission on demand.

DAILY REPORT OF 86.400 SAMPLES

Daily summary report of measurements per second with local storage in a cyclic queue with a depth of 1 year: average, minimum and maximum value with date and time of detection; mean square deviation, trend and variability; number and total time of out of threshold.

CONFIGURABLE MEASURE TRANSMISSION

Sending of daily report or instantaneous value with a defined frequency. When communicating with a SCADA system, polling is possible every minute/hour/day.

REAL TIME **ALARMS**

User-configurable alarm thresholds for each channel and for external power supply failure: possibility of alarm notification (SMS/EMAIL) in real time.



An integrated solution for greater efficiency

COMPACT DESIGN All the elements that contribute to the functionality of the device (measurement section, modem, memory, battery, cyclic switch) are integrated in a single compact housing that makes it suitable for any application context.

MAINTENANCE & DIAGNOSTICS

To optimise maintenance work in the field, the device also transmits diagnostic parameters (communication, rectifiers, faults, etc.). The firmware update can be carried out both locally and remotely.

WEBPROCAT

FIDO UNIVERSAL

synchronised with WebProCat.

COMMUNICATION PORTS

- Local: BLE with Fido Universal management software
- Remote: 2G/3G/4G or Ethernet with WebProCat/other platforms

CATHODIC PROTECTION MEASURE

- 5 galvanically isolated channels
- Simultaneous AC/DC measurement on the same physical channel
- Selectable scales ± 500 mV, ± 20 V, ± 50 V, ± 100 V DC
- Measurement accuracy: 0,02% FS
- OFF measurement on coupons (instant-OFF), parameterisation to the millisecond
- Protection against impulsive transients 10/350 uS > 5 KW POWER SUPPLY
- Integrated long-life lithium battery (+5 years)
- External solar panel (+10 years) with external accessory SOLAR BOX
- External (12VDC/220VAC)









Platform for managing data collected from cathodic protection monitoring devices: analysis, time trends, graphical representation, cartography, regulatory compliance, reporting, device configuration, rectifiers remote control. synchronisation of manual measurements, export, integration with third-party applications (SCADA, SAP, CARTOGRAPHY, etc.).

The activities carried out by the operator in the field, both in terms of manual measurements and in terms of installation/maintenance of the devices, are managed in the field with the Fido Universal application via local communication in Bluetooth Low-Energy and automatically

MECHANICAL DATA

•	Dimensions:	L 12.9	xH8.5	5 x P 7.7	cm

- IP68/IK07
- Weight: 0.8 kg
- Operating temperature: 20 °C ÷ + 85 °C
- Installation: DIN rail, Conchiglia, M28, custom
- **COMPLIANCE WITH STANDARDS**
- ISO 15589-1, ISO 22426, ISO 18086, ISO 21857, ISO 22426
- EN 12954, EN 13509
- UNI 11094, UNI 10950, APCE guidelines
- NACE SP0169, TM0497, RP0104



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