

G4C-IBK / G4C-IBK CONTROL

ON-OFF switching, T/R remote control

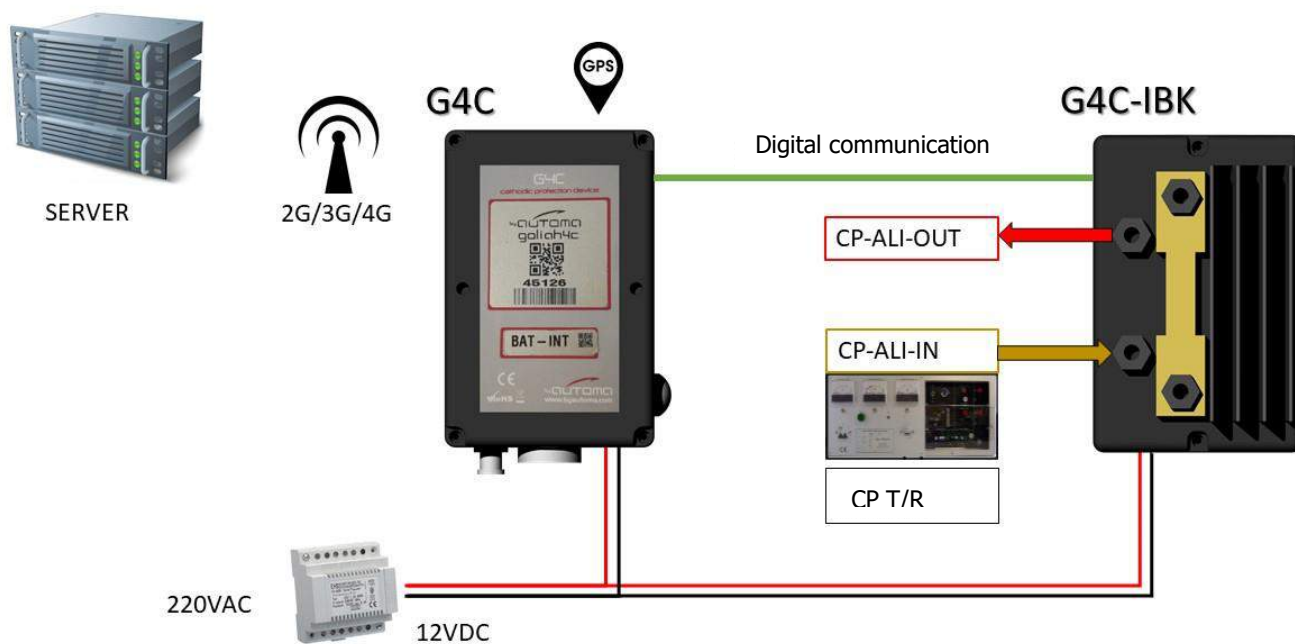


G4C



G4C-IBK

Operational scheme



The **G4C-IBK** is an accessory of the G4C remote monitoring equipment that allows to handle the synchronous interruption of the power cable between the pipe and the T/R and perform the On / Off cycling switch according to the configurations sent to the G4C by the control software.

The system, with electronic switches, allows interruptions to be carried out with very high frequency to perform DCVG and/or CIPS techniques and without the risk of the typical rebounds of mechanical switches.

In **G4C-IBK CONTROL** configuration, it also allows the remote regulation of any type of T/R for cathodic protection, also the oldest ones that do not have a predisposition for remote control, by modulating with its own set of electronic switches the T/R output current and allowing the possibility of performing all types of regulation:

- Constant current
- Constant On potential with bias current
- Constant Off potential:
 - local Off potential, by means of coupon
 - remote Off potential, by means of coupon installed in a remote test post equipped with Solar Box and G4C

The device is compact and equipped with protections and safety in case of internal damages.

It works in association with a G4C equipped with a GPS receiver to guarantee the precise timing function (1PPS).

Technical characteristics

- Integrated solid state electronic interrupter (power MOSFET), to manage:
 - ON-OFF switching
 - Cathodic protection T/R remote monitoring
 - minimum regulation step: 0.1% FS
- Electronic switch, maximum power:
 - 150 V DC / 60 A or 200V DC / 50 A
- Safety in case of a damage:
 - Electronic switch redundancy, which guarantees normal operation in the event of a short circuit
 - System alert in case of damage
- GPS-based ultra-precise time synchronization (it is compatible with GPS, Galileo, GLONASS, BeiDou)
- Mechanical support for SHUNT
- Low voltage external power supply::
 - Mains power (with 12V AC / DC adapter)
 - Solar Panel (up to 12V)
- Container in ABS material resistant to impacts
- IP rating: IP 21
- Ready to fit DIN rail
- Physical dimensions: 129 x 85 x 77 mm
- Operating temperature: - 20 ° C a + 60 ° C
- Available in different power cuts:
 - G4C-IBK-5A
 - Electronic relay: 150V DC / 5 A
 - equipped SHUNT: 5 A
 - G4C-IBK-10A
 - Electronic relay: 150V DC / 10 A
 - equipped SHUNT: 10 A
 - G4C-IBK-30A
 - Electronic relay: 150V DC / 30 A
 - equipped SHUNT: 30 A
 - G4C-IBK-60A
 - Electronic relay: 150V DC / 60 A
 - equipped SHUNT: 60 A
 - G4C-IBK-50A-200V
 - Electronic relay: 200V DC / 50 A
 - equipped SHUNT: 50 A