

# G-DART

FOR TEST STATIONS  
REMOTE DATALOGGING UNIT

## The power of a data-logger in your RMU and the data analysis capability to provide you with:

- Actionable daily reports that analyze data for you
- Off-potential and current density coupon readings
- ER Probe readings
- Battery-powered
- Designed for standard 3" test station pole
- Solar power ready
- Patented Reference Cell diagnosis
- Cellular and satellite communication

## Readings per Second are Summarized in Maximum, Minimum, Average values

### READINGS

The G-Dart provides up to 10 different readings from 5 galvanically isolated dual terminals, enabling you to measure AC and DC values across a fully selectable range, including:

- Structure Potential (DC & AC)
- Coupon Instant-Off Potential
- Native Potential
- 100 mV Shift and Depolarization
- AC Readings for Monitoring AC Mitigation
- Current Density (AC & DC)
- Detection of Dynamic Stray Currents
- Bond Current Measurement

### DAILY ANALYSIS REPORT

The daily summary report analyzes the per-second data, providing a summary that includes average, minimum, and maximum values along with the date and time of detection; mean square deviation; trend and variability; the total time out of threshold; and alarms.

### DATALOGGING FREQUENCY: READINGS PER SECOND

Data is logged every second across all channels, storing up to 86,400 samples per day for 62 days, depending on enabled channels, with on-demand data transmission available.

### OPTIONAL ADD-ON FEATURES: ER-PROBE & REF-CELL DIAGNOSIS

Upgrades include the ER Probe for corrosion rate measurements and STEALTH-Check for verifying reference electrode installation.

### INSTANT-OFF COUPON READINGS CONFIGURABLE IN MILLISECONDS

The integrated solid-state switch allows for instant-off measurements every second, with interruption and measurement cycles configurable in milliseconds (compliant with SP0104 and ISO 22426).

### FUTURE READY

Its modular design allows for field upgrades without removal, including battery changes and communication technology updates, and switching from cellular to satellite and vice versa.

### SOLAR PANEL READY

The G-DART can be retrofitted for solar power, enabling real-time monitoring at the test point.

## Remote Datalogging To Protect The Integrity Of Your Assets

The G-DART technology is a game-changing approach to RMUs by offering you:

- 1) High-frequency readings that were previously only available from data loggers.
- 2) Edge computing power to analyze the data directly in the field unit.
- 3) An intuitive algorithm that presents the information on your computer in a summarized, actionable report.

*This efficient solution delivers to you the granularity of data that shows a real picture of the situation without overwhelming you in vast amounts of information, as it performs all the analysis automatically for you.*

With its high-frequency sample rate and advanced analysis capabilities, G-DART provides:

- More comprehensive monitoring for High and Moderate Consequence Area sites (mega rule HCA and MCA).
- Improved understanding of interference at foreign crossings.
- Enhanced awareness of the need for AC Mitigation.
- True understanding of stray and telluric current issues.
- In-depth analysis of readings to better understand shared right-of-way concerns.



## An Integrated Solution For Greater Efficiency

### WEB BASED PLATFORM -WEBPROCAT

The data collected from cathodic protection RMU/RDUs or manual readings are stored and managed in the WEBPROCAT portal. This versatile system is designed to enhance Cathodic Protection monitoring and analysis, providing everything from **actionable Management Summary** reports, or **daily status updates for technicians** to detailed graphics for **Cathodic Protection Specialists diagnosing/solving a complex problem**. It expands standard features such as analysis, time trends, graphical representation, maps, regulatory compliance, reporting, device configuration, remote control or rectifiers, synchronized interruption, data export, integration with third-party applications (SCADA, SAP, CARTOGRAPHY, ProActive®, Bass Trigon®, etc.), and more.

### MODULAR DESIGN - EASY INSTALLATION

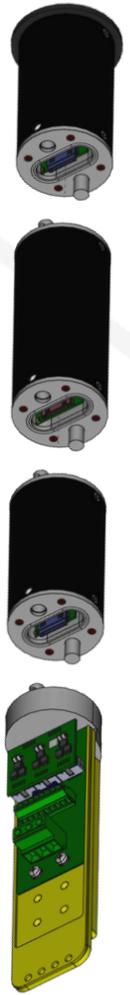
Easily fits inside a standard 3" test station pole for quick installation, with accessible terminals for manual readings and pipe-locator signals. Its modular design allows for upgrades in the field.

### MAINTENANCE & DIAGNOSTICS

The device transmits diagnostic parameters (communication, battery, alarms, etc.) to optimize field work and allows for remote or manual firmware updates.

### BLUETOOTH APP - FIDO UNIVERSAL

Field activities by the operator, including manual measurements, installation and maintenance, are recorded in the Fido Universal Bluetooth App and synced with the WebProCat platform.



#### COMMUNICATION

- Local: BLE with Fido Universal management software.
- Remote: 2G/3G/4G or Iridium Satellite

#### MECHANICAL SPECS

- Dimensions: 24.5 in L x 2.9 in diam, 62.2 cm L x 7.3 cm diam
- Weight: 3.4 lb, 1.5 Kg
- Operating temperature: -4 °F + + 185 °C
- Installation: Standard 3" Test Station pole
- Junction box installation available - dimensions: 5.1 x 3.3 x 3.0 in, 12.9 x 8.5 x 7.7 cm

#### POWER SUPPLY

- Integrated long-life lithium battery (+5 years)
- External solar panel (+10 years) - with external accessory SOLAR 3" Test Station

#### COMPLIANCE WITH STANDARDS

- ISO 15589-1, ISO 22426, ISO 18086, ISO 21857
- ISO 22426
- EN 12954, EN 13509
- UNI 11094, UNI 10950, Linee Guida APCE
- NACE SP0169, TM0497, SP0104
- IEC 62443 (CYBERSECURITY)

#### CHANNEL SPECIFICATIONS

- 5 galvanically isolated channels
- Simultaneous AC/DC measurement on the same physical channel
- Selectable scale ranges  $\pm 500$  mV,  $\pm 20$  V,  $\pm 50$  V,  $\pm 100$  V - DC
- Measurement accuracy: 0.02% FS
- Instant OFF Potential in coupons configurable in milliseconds
- Over voltage protection 10/350 uS > 5KV.



## Get In Touch



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