The Cathodic Protection Co Ltd Range of GPS current interrupters offers both stand alone units suitable for field surveying, and fully integrated units which can be installed in the TRUst™ range of transformer rectifiers, or any other transformer rectifier available on the market. Developed in conjunction with our own field survey and engineering teams it offers unrivalled functionality and performance.

DCVG (Direct Current Voltage Gradient) is specifically used to evaluate the coating condition on buried pipelines by locating the coating defects and categorising them according to effective electrical size. When Direct Current (DC) is applied to a pipeline, as in the application of cathodic protection, a Voltage Gradient (a potential difference) is created in the soil due to the passage of current from the anode bed to the bare steel exposed at coating defects. CPC’s specially designed analogue voltmeter is utilised with a pair of saturated Copper/Copper Sulphate electrodes (probes), in order to locate the epicentre of a defect on the soil surface directly above its location. To ease interpretation and to separate the DC signal from other DC sources (such as long line cells, telluric and other foreign CP systems) a Current Interrupter is inserted into the negative connection of the pipeline CP power source.

**FEATURES**

- Compact Portable Current Interrupter.
- On-Board OLED Display with Power Saver.
- GPS Synchronisation.
- Microprocessor Driven.
- 8 Individually Programmable Time Schedules.
- Programmable Start and Stop Times.
- Holds Power ON When Not Interrupting.
- Comprehensive 1 Year Warranty.
- Rugged Construction.

**INCLUDED**

- AC charger; 120/240V AC, 50/60 Hz Input
- Rechargeable NiMH Battery Pack
- Interruption Cables With Connection Lugs and Adaptors
- Magnetically Mounted GPS antenna
- Owners’ Manual

**TECHNICAL SPECIFICATION**

- Capacities: 15A / 25A / 50A / 100A / 200A models at 50VDC
- Switching: Solid State Relay for Added Reliability
- Case: IP67 / NEMA 4X plastic case with O-ring seal and locking hasp
- Dimensions: 23cm x 16cm x 10cm (9” x 6” x 4”)
- Weight: 2 kg (5 lb) to 5kg (11 lb)
- Battery: 7.2V 4,300mAh NiMH (Extra capacity options available)
- External Power: Accepts 12-24V AC/DC external power to supplement battery life
- Power Connections: Provided as Standard Dependent upon Power specification
- GPS: SiRF GPS Modem with Integrated Sleep function to increase battery life
- Cycle time: 0.1Seconds to 1 Week
- Off time: 0.1 Seconds to 24 Hours

SURVEY AND MONITORING PRODUCTS

CATHODIC PROTECTION CO LIMITED
Cathodic Protection Co. Ltd is a leading company in the field of Cathodic Protection survey and monitoring work. We have provided equipment and services worldwide to many hundreds of clients who look to us to provide accurate, reliable and efficient methods of collecting, storing and interpreting their Cathodic Protection data. In today’s compliance driven working environment we provide a range of tools that enable your engineers to maximise their efficiency and give you the confidence in the data they are collecting.

There are numerous benefits to carrying out routine Cathodic Protection survey and monitoring work including:

- Operational status and health checks for your CP system
- Coating condition and defect analysis
- Early identification of potential problem areas
- Prioritisation of maintenance and repair work
- Overall reduction in operational costs
- Reduced environmental impact

The range of products presented in this brochure are those that we feel offer the best in build quality, accuracy and integrity and cover a wide range of applications including:

- Close Interval Potential Survey (CIPS) equipment
- Direct Current Voltage Gradient (DCVG) equipment
- TRUst™ Current Interrupters
- Refine™ Reference Electrodes
- American Innovations PCS Software
- MSES range of survey tools and accessories.

As well as materials and equipment supply, CPCL are well placed to provide our clients with bespoke training packages, technical support and a full data collection, interpretation and report service through our technical services department. We carry a wide range of equipment in stock and support our products with the necessary spare parts and replacement consumable items.

We look forward to working with you and to tailoring a solution that meets your exact requirements at a competitive price.

Andrew Arnold
Sales & Marketing Director
**PIPETLINE COMPLIANCE SYSTEM**

AI’s Pipeline Compliance System (PCS) is a modular database that is used worldwide to manage, schedule, report and maintain critical pipeline inspection data. This configurable application allows companies to administer the large quantities of data required for pipeline compliance regulations. Information can be accessed and altered locally or remotely then synchronized.

**CATHODIC PROTECTION DATA MANAGER**

Cathodic Protection Data Manager (CPDM) is the industry standard for managing Cathodic Protection data. CPDM is the flagship module of PCS primarily used to manage, schedule, report and maintain critical pipeline inspection data such as Test Pits, Rectifiers, Foreign Bonds, Galvanic Anodes and Tank inspections. In continuous development since 1985, CPDM lowers the administration overhead of operating a CP system, freeing professional staff for engineering functions.

**INDIRECT SURVEY MANAGER**

Indirect Survey Manager (ISM) is a powerful application for managing and aligning External Corrosion Direct Assessment data such as Test Pits, Rectifiers, Foreign Bonds, Galvanic Anodes and Tank inspections. In continuous development since 1985, ISM lowers the administration overhead of operating a CP system, freeing professional staff for engineering functions.

**ALLEGRO MX FIELD DATA PC**

Al’s Allegro MX Field Data PC is a robust and versatile field computer that was designed specifically to meet the demands of the oil and gas pipeline industry. Utilized by pipeline industry leaders to capture required, critical pipeline data such as routine monitoring of test points, rectifiers etc. to the more detailed close interval potential survey application. Being 100% compatible with PCS, Allegro units typically pay for themselves in less than a year by saving data collection, transcription time and eliminating errors associated with manual data entry.

**FEATURES**

- Flexible data entry
- Easy visualisation of problem areas with graphical reports
- Manage large data quantities easily
- Flexible open hierarchy system
- Multi-User design through replication/synchronization
- Geographic Routing and Scheduling of Surveys
- Unlimited ad hoc filtering throughout the entire system whether editing or reporting
- Unlimited user defined fields to suit your technician’s requirements

**BENEFITS & FEATURES**

- 100% Compatible with Al’s Pipeline Compliance System (PCS) Software
- Integrated fully functional volt meter
- GPS data collection and GIS data verification
- WiFi and Bluetooth available.
- Intuitive and easy-to-use for all levels of corrosion expertise
- Range checking and validation lists to ensure accuracy of data
- Works with standard and GPS synchronized current interrupters
- RFID Feature for 100% Verification of inspections

**TECHNICAL SUPPORT**

CPCL and American Innovations work closely together to provide a full support and engineering service to their clients. As well as providing the above software and data collection solutions, CPCL are equipped to provide technical support to our customers with both PCS & Allegro.

We also offer:

- Bespoke training
- Implementation services
- Consultancy
- Software and report customisation
- Data conversion and hierarchy design

**FEATURES**

- Geographic routing and scheduling of surveys
- Unlimited ad hoc filtering throughout the entire system whether editing or reporting
- Unlimited user defined fields to suit your technician’s requirements
SURVEY PRODUCTS AND ACCESSORIES

CPCL & MSES work together providing our customers with survey products and accessories. Our vast experience in the field makes us appreciate the need for comfortable, reliable, user friendly and robust survey products for our technicians to use. This along with carrying a wide range of equipment in stock enables us to provide our customers with a quick and affordable service.

Products are designed to work with American Innovations Allegro MX field computer. CPCL have been reselling this equipment since 2007. Below is an introduction to the key products in the range.

The combination close interval potential survey and GPS Backpack System is a user friendly, comfortable and robust back-pack system. The CIPS/GPS Pack Model CS-100 combines the trimble GPS path finder Pro XRS Equipment and backpack with the American Innovations Allegro MX field computer and MSES Corrosion Products Division Close Interval Pulsed Survey Wire Chainer and Survey Meter Tray.

The Hip Pack with Pulsed Wire Chainer HP-100 is a lightweight system used for shorter CIPS surveys. The packs structure provides a reinforced, zipped, reverse-open lid and a front zip pocket for cable storage. As with the CS-100 back pack system the hip pack system works in conjunction with the American Innovations Allegro MX Field Computer and the MSES Pulsed Wire Chainer and Survey Meter Tray.

The Survey Probe with Data Button SPB-100 is a heavy duty aluminium survey probe used during CIPS surveys. With a heavy duty non-slip vinyl grip and a rain resistant data entry button they can be used in conjunction with both back-pack and hip pack systems as well as the survey meter tray. Fully compatible with CPC’s JR1 Reference Electrode.

The combination close interval potential survey and GPS Backpack System is a user friendly, comfortable and robust back-pack system. The CIPS/GPS Pack Model CS-100 combines the trimble GPS path finder Pro XRS Equipment and backpack with the American Innovations Allegro MX field computer and MSES Corrosion Products Division Close Interval Pulsed Survey Wire Chainer and Survey Meter Tray.
DCVG (Direct Current Voltage Gradient) is specifically used to evaluate the coating condition on buried pipelines by locating the coating defects and categorising them according to effective electrical size. When Direct Current (DC) is applied to a pipeline, as in the application of cathodic protection, a Voltage Gradient (a potential difference) is created in the soil due to the passage of current from the anode bed to the bare steel exposed at coating defects. CPC’s specially designed analogue voltmeter is utilised with a pair of saturated Copper/Copper Sulphate electrodes (probes), in order to locate the epicentre of a defect on the soil surface directly above its location. To ease interpretation and to separate the DC signal from other DC sources (such as long line cells, telluric and other foreign CP systems) a Current Interrupter is inserted into the negative connection of the pipeline CP power source.

CPCL have completed many thousands of kilometers of DCVG survey work worldwide and as such are well placed to provide a complete turn key service. Our team of engineers can offer a complete engineering package incorporating:

- Project specification and methodology preparation
- DCVG Equipment supply
- DCVG survey
- Investigative digs and inspection.
- Results collection and data storage / transfer
- Interpretation of results and data reports
- Recommendations and conclusions

DCVG data can be inputted into the Indirect Survey Manager Software and compared alongside test point and close interval inspection data for a detailed overview of pipeline coating condition and cathodic protection operational status.
The Cathodic Protection Co Ltd Range of GPS current interrupters offers both stand alone units suitable for field surveying, and fully integrated units which can be installed in the TRUst™ range of Transformer Rectifiers, or any other Transformer Rectifier available on the market. Developed in conjunction with our own field survey and engineering teams it offers un-rivalled functionality and performance.

**FEATURES**

- Compact Portable Current Interrupter
- On-Board OLED Display with Power Saver
- GPS Synchronisation
- Microprocessor Driven
- 8 Individually Programmable Time Schedules
- Programmable Start and Stop Times
- Holds Power ON When Not Interrupting
- Comprehensive 1 Year Warranty
- Rugged Construction

**INCLUDED**

- AC charger, 120/240V AC, 50/60 Hz Input
- Rechargeable NiMH Battery Pack
- Interruption Cables With Connection Lugs and Adaptors
- Magnetically Mounted GPS antenna
- Owners’ Manual

**TECHNICAL SPECIFICATION**

- Capacities: 15A / 25A / 50A / 100A / 200A models at 50VDC
- Switching: Solid State Relay for Added Reliability
- Case: IP67 / NEMA 4X plastic case with O-ring seal and locking hasp
- Dimensions: 23cm x 16cm x 10cm (9” x 6” x 4”)
- Weight: 2 kg (5 lb) to 5kg (11 lb)
- Battery: 7.2V 4,300mAh NiMH [Extra capacity options available]
- External Power: Accepts 12-24V AC/DC external power to supplement battery life
- Power Connections: Provided as Standard Dependent upon Power specification
- GPS: SiRF GPS Modem with Integrated Sleep function to increase battery life
- Cycle time: 0.1 Seconds to 1 Week
- Off time: 0.1 Seconds to 24 Hours
EQUIPMENT
pipeline CP power source.

INTERRUPTER
Interrupter is inserted into the negative connection of the
long line cells, telluric and other foreign CP systems) a Current
and to separate the DC signal from other DC sources (such as
with a pair of saturated Copper/Copper Sulphate electrodes
as in the application of cathodic protection, a Voltage Gradient (a
electrical size. When Direct Current (DC) is applied to a pipeline,
evaluate the coating condition on buried pipelines by locating the
DCVG (Direct Current Voltage Gradient) is specifically used to

FEATURES
Comprehensive 1 Year Warranty.

TECHNICAL SPECIFICATION
• Holds Power ON When Not Interrupting.
• Programmable Start and Stop Times.
• Microprocessor Driven.
• GPS Synchronisation.
• On-Board OLED Display with Power Saver.

INCLUDED
• Interruption Cables With Connection Lugs and Adaptors
• AC charger; 120/240V AC, 50/60 Hz Input
• 8 Individually Programmable Time Schedules.
• Interruption Cables With Connection Lugs and Adaptors
• External Power: Accepts 12-24V AC/DC external power to
• Microprocessor Driven.
• GPS Synchronisation.
• On-Board OLED Display with Power Saver.

HEAD OFFICE
Cathodic Protection Co. Limited
Venture Way
Grantham
Lincolnshire
NG31 7XS
United Kingdom
Tel: +44 (0)1476 590666
Fax: +44 (0)1476 570605
Email: cpc@cathodic.co.uk

UK BRANCH OFFICE
Cathodic Protection Co. Limited
Electra House
Crewe Business Park
Crewe
Cheshire
CW1 6GL
United Kingdom
Tel: +44 (0)1270 500440

MIDDLE EAST OFFICE
Gold & Diamond Park
Building 7
Suite 1-111
Dubai
United Arab Emirates
Tel: +971 50 6683 840
Email: cathodic@emirates.net.ae

GLOBAL AGENCIES
For details of our network of agencies
please visit our website
www.cathodic.co.uk

www.cathodic.co.uk