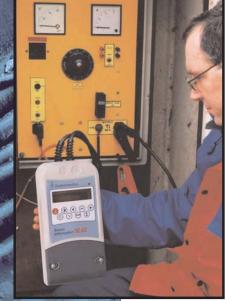# 50 / 100 Amp Smart Interrupter

Radiodetection introduce a powerful solid state interrupter for the corrosion technician. The unit features advanced power management, high current switching capability, user programmability, circuit protection and compact physical size.

- 50A and 100A versions.

- Extremely compact and lightweight, fits in tight areas, no orientation requirements.

- On/Off ranges between 0 to 100 seconds.

- Reverse Polarity Protection.

- 300 hour battery life from 2xD cell batteries or can run continuously from CP supply.

- Full microprocessor controlled, automatically stores the last ten used setups.

- Master/slave synchronisation as standard.

- GPS option permits synchronisation of any number of interrupters remote from each other.

- GPS option also permits 24hr timer operation.

- Advanced power electronics means cool running even at high temperatures.

- Can generate 4Hz & 8Hz for compatibility with Radiodetection's Precision Pipe Locator.

- Software upgrades via RS232 socket.

- User replaceable leads.

- Remembers last setting and can store up to 10 Waveforms.

The Smart Interrupter can be used as a conventional 50A or 100A interrupter as well as generating unique signatures for the Radiodetection Stray Current Mapper (SCM) system.

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Technical Specification

Current Output: 50A / 100V peak continuous or 100A / 100V peak continuous High Current Option

Connection Outputs: 2 cables (CP supply, CP switched, (with auxiliary Ground Terminal)

Switching Patterns: On/Off Time 0-100s (0.1sec increments up to 10secs) Unit saves history of last ten patterns. Last pattern used selected at power on. SCM and Precision Pipe Locator signals

Synchronisation:

Method 1   Master Slave (unit to unit via initial hardwired connection) 100ms in 12 hour period

Method 2   GPS synchronisation (requires GPS option) +/- 4ms

24hr Timer: Programmable On/Off timer repeats every 24 hrs (requires GPS option)

Microcontroller: Controls keyboard inputs, LCD functions, non-volatile storage, RS232 communications and FET switching

User Interface: 2 line by 16 character LCD with alpha numeric and special character display. Automatic backlight

Keypad: User input via 9 key membrane keypad

Software Upgrades: Via RS232 9-way D-type interface

Batteries: 2 x 1.5V D cells provide 300 hours @ 20C (indefinite with ground connection)

CP Power: Will run continuously from CP supply if above 5V

Environmental Protection: IP65 rain and dust resistant

Ambient Operating Temperature: 13.8°F (-20°C) to140°F (60°C)

Reverse Polarity: Protection for 10 minutes with audible warning

Construction: Housing high impact structural foam plastic

Dimensions: Size 12" (300mm) x 6" (150mm) x 3" (80mm), Weight 2.5kg (5.5lb)

EMC Compliance: Meets, as applicable, the following EU Directives 89/336/EEC, 1999/5/EC and 73/23/EEC.

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Radiodetection products are under continuous development are subject to change without notice.