



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) to 140°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.

Radiodetection Ltd
Western Drive
Bristol BS14 OAZ, UK
Tel: +44 (0)117 9767776
Fax: +44 (0)117 9767775
email: sales.uk@radiodetection.com
<http://www.radiodetection.com>



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

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