

D5526 Precision Interruptor

The D5526 Precision Interruptor is a quartz crystal controlled interruptor module intended for use with cathodic protection rectifiers. The interruptor provides separately adjustable ON and OFF times of 1s to 99s. Remote synchronisation and master/slave operation is standard.

The D5526 Precision interruptor is a compact quartz crystal controlled interruptor which can be fitted built in to one of the Brodrigg range of rectifiers or retrofitted to rectifiers already in service. The D5526 can be provided with a number of power control devices which allow control by mains voltage ac switching, dc output current switching or contactor coil control. Time adjustments of 1 - 99 seconds ON and OFF can be independently made and a battery back up facility and inbuilt battery charger gives portable operation.

The D5526 interruptor is based around a precision quartz crystal whose frequency is accurately set. The crystal generates a high frequency signal which is divided down in digital divider circuits to produce a very precisely timed 1 second signal. The 1 second signal is then counted by counter circuits which are controlled by large digital thumbwheel switches. The switches display the selected ON and OFF time and can be set easily using "increase" and "decrease" pushbuttons mounted above the display.

The interruptor output relay changes state from ON to OFF at these set times, recycling continuously.

External master synchronising facilities allow one D5526 Interruptor to set up and synchronise a group of D5526 interruptors. Both Master and Slave inputs are standard.

The output of the interruptor control relay can be used to operate a larger inbuilt relay which is suitable for mains voltage switching. With this relay the interruptor can be used to directly switch ac loads of up to 380V single phase at 10A. A typical application is switching the primary supply of a transformer rectifier. Alternate output configurations include an

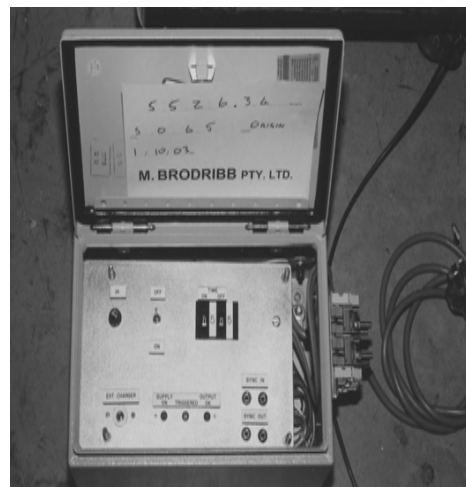
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CATHODIC PROTECTION SYSTEMS , ACCESSORIES

output dc solid state relay and an ac solid state relay.

The dc solid state relay can be used to switch the dc output of a rectifier at ratings of up to 50A and 50V. Switching the dc output permits making 'Instant Off' Potential measurements as there is no time decay of the output current, such as may occur when the primary of a transformer rectifier is switched. The ac solid state relay can be used to switch ac loads in a similar way to the ac mechanical relay, but with the advantage of lower power consumption and longer battery support time.

The D5526 interruptors have a built in sealed lead acid battery and a regulated, current limited charger. When the interruptor is being supplied by ac the battery is automatically recharged. A low voltage cutoff relay prevents overdischarge and damage to the battery after prolonged use on dc supply.



D5526 portable interruptor with inbuilt 50V 50A dc solid state relay. Interruptor has inbuilt battery, status indicator leds and master and slave synchronising.

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