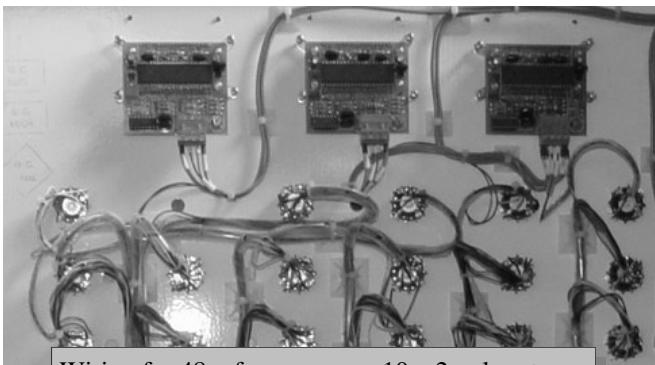


D5675 Electronic Reference Switch.

The D5675 Electronic reference switch provides a means of reading large numbers of references without the use of complex banks of rotary switches. The switch is controlled by digital inputs from a PLC or decade switch. Each reference switch has 20 precision high impedance inputs and up to 5 switches can be operated in parallel from a single control bus.

The D5675 Electronic reference switch is a solid state precision buffer amplifier which is digitally controlled. The switch has 20 inputs which can be used to monitor voltages from reference half cells where a large number of half cells are connected to a common structure. The switch has an input impedance greater than 100MegOhms at 2V input on each input channel.

The electronic switch is used to replace the banks of rotary switches and associated complex wiring required to provide monitoring of numbers of half cells on a single display meter. In addition, the electronic switch has no moving parts in the voltage amplification circuits and so other problems associated with rotary switch banks switching microamps such as corrosion on contacts and mechanical wear of the rotary switch are eliminated.



Wiring for 48 references uses 10 x 2 pole rotary switches and has over 116 wires and 232 solder points.

The D5675 switch is permanently connected to all the references that require monitoring. Each channel can measure voltages up to $\pm 6V$ dc from a common input voltage, typically the structure. Each channel is surge protected against transients of up to 1 000V for 2 micro-

D5675 ELECTRONIC SWITCH REV A 21/11/03

CATHODIC PROTECTION SYSTEMS , ACCESSORIES

seconds to provide reliable operation in lightning prone environments.

The reference to be read is selected by external digital switches which address solid state relays in the reference switch. The selected output signal is then read from the output of the reference switch, referenced to the same common voltage. The high input impedance amplifiers used for each reference enable the use of low impedance monitoring devices such as analog meters and analog input channels on data gathering devices.

The digital addressing can also be performed by the outputs of a Programmable Logic Controller or a remote monitoring system which can then be designed to automatically read an array of reference voltages.

The D5675 switch can be specified at the time of ordering with any of our range of cathodic protection rectifiers or it can be fitted as an option to existing systems. Please contact our factory for details.



MANUFACTURED BY

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