

## ID-471MW Conduction to Ground Monitor

The IDB Model 471MW is a battery-powered Conduction to Ground Monitor which provides a simple and reliable means for screening personnel entering sensitive areas for the effectiveness of their conductive footwear to avoid the presence of electrostatic charge on the human body.

Sensitive or hazardous areas may occur in the explosives, chemical, petrochemical and plastics industries in the handling of solvents and hydrocarbon fuels, and in the semi-conductor industry in the handling and assembly of special semi-conductor devices.

Conductive/antistatic footwear providing conduction to earth of 0-1M $\Omega$  is a simple way to avoid accumulation of net electrostatic charge on personnel. The Model 471MW has a pre-set threshold above which the red danger lamp will illuminate.

The Model 471MW Conduction to Ground Monitor has a display unit which may be either mounted on the wall about shoulder height, just outside the sensitive or hazardous area. When mounted on a wall, the unit is connected to a bare metal plate on the ground just below the wall unit. By standing on the metal plate, holding the metal handle on the wall unit and pressing the 'TEST' button the monitor circuit is activated and the electrical resistance is measured between the test handle and the floor plate. The unit will show a red fail light and this only changes to green if the resistance to ground is acceptable (between 0 $\Omega$  and 1M $\Omega$ ) and is displayed on the analogue meter. The circuit is arranged to provide fail/safe operation and a green light will only be shown if the resistance path is below 1M $\Omega$ .

The ID-471MW is supplied with an IP44 rating which provides resistance to dust particles down to 1mm in size and splashing water.

Our engineering consultants would be pleased to discuss your requirements with you, and we invite you to contact our team at [info@idbsystems.co.uk](mailto:info@idbsystems.co.uk), alternatively call us on +44 (0) 1492 864 126.



### SPECIFICATIONS & FEATURES

<b>Power Supply:</b>	4 x AA batteries accessible by removing the lid
<b>Test Voltage:</b>	12V maximum
<b>Critical resistance value:</b>	1M $\Omega$
<b>Ingress Protection:</b>	IP44
<b>Control box dimensions:</b>	170 x 210 x 100mm
<b>External connections:</b>	An earth wire connection to stainless steel ground plate supplied with the unit.
<b>Self-Test &amp; Maintenance:</b>	The ID-471M is equipped with a simple to use switch mounted on the side of the unit to check operation and condition of the battery, thus minimising the time for regular maintenance checks. IDB Systems operate a calibration and maintenance support service details of which can be tailored to meet individual customer preferences.

Please email [support@idbsystems.co.uk](mailto:support@idbsystems.co.uk) for further details.