

# INTRINSICALLY SAFE STRAIN METER

The Intrinsically Safe Strain Meter is designed to meet the requirements of EN50014 and EN50020, and approved to operate reliably in potentially explosive atmospheres, reading single arm 120 ohm resistive strain gauges commonly used in instrumented rock bolts.

Readings are shown in Microstrain Units, quickly and simply by selecting "READ" on the three-way rotary switch on the front panel of the unit.

Battery voltage (in volts) can also be checked during operation using this switch.

A second rotary switch is used to select the channel to be monitored when up to 20 strain gauges have been connected.

The strain meter is powered by a rechargeable Nickel-Cadmium battery pack giving 8 hours continuous use between charges. It should be noted that the battery charger supplied is not intrinsically safe and should be used at the surface only.



## The Intrinsically Safe Meter Offers:

- Measurement of 120 $\Omega$  resistive strain gauges
- Intrinsically safe approval by MECS and British Coal Corporation
- Liquid Crystal Display giving microstrain units to a maximum value of 19,999 units
- Rechargeable Nickel-Cadmium battery
- Ability to read up to 20 strain gauges
- Hand-held graphite filled glass fibre antistatic case with shoulder strap and belt clip

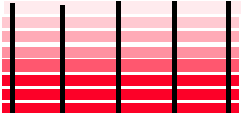
## Specification – Model 1041

- **Display** 4.5 digit numeric Liquid Crystal Display
- **Power Supply** 9.6v NiCd rechargeable batteries providing 8 hours continuous use
- **Temperature Range** 0 to +50° C operating temperature –20 to + 70° C transport and storage temperature
- **Excitation Voltage** 2v
- **Dimensions** 255 x 120 x 72mm
- **Weight** 1.6kg
- **Accessories** 240v a.c. battery charger and user manual included with unit
- **Official Approvals** MECS No. 92C73320. British Coal Electrical Acceptance No. 2257/1
- **Design** Meets requirements of EN50014 and EN50020
- **Use Category** EExial [External Connections (H?)]

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