



# General Instrumentation Data Sheet

## GENERAL PURPOSE HEAVY DUTY DIGITAL MULTIMETER HD110B



HD110B

Rugged DMM for Electrical and Industrial Field Work  
Special Sealing for Environment & Water Proofing  
Drop-Proof Special Housing and PCB Mounting  
Extra Fusing and Protection from Accidental Overloads  
Highest Voltage Measuring to 1500VDC and 1000VAC  
Oversized, Shock Mounted LC Display  
Auto-Power Off  
Unique Live Voltage Safety Tester (tm)  
Holster Included

### Ranges

dc voltage	0.1mV – 1500V ± 0.1%
ac voltage	0.1mV – 1000V ± 0.75%
dc current	0.1µA – 10 A ± 0.35%
ac current	0.1µA – 10 A ± 0.9%
resistance	0.1Ω - 20 MΩ ± 0.5%
safety tester	24, 50, 120, 240, 480 V
diode test and continuity bleeper	

## INTRINSICALLY SAFE DIGITAL MULTIMETER MX57EX

LCIE Certificate No.: 91.C6063X, 92.C8003X Approval Categories: EEx ib IIC T6, EEx ib I



- A 5000 count multimeter in the Metrix advance safety concept case certified as intrinsically safe with current range limited to 500mA in order to attain Gas Approval I& II. The approval covers measurements of voltages up to 60V, current up to 500mA and resistance. Also, continuity, diode test and logic level detection. Outside of hazardous areas, it can be used without the restrictions. 0.1% basic d.c. accuracy
- Zoom (magnify x5) bargraph display mode.
- Enhanced 50mA d.c. range with 0.1% accuracy suitable for measuring 4-20mA process values
- Protected by 500mA hazardous area fuse 419-044
- Surveillance modes : memorises the measured limits while display shows the current value, even while min/max memories are being examined
- Supplied with protective leather case, PP3 battery, spare fuse (419-044), SECUR'X™ test leads & instruction manual

## Pipeline Maintenance Limited

Cathodic Protection Engineering and Materials Supply  
11 & 12 Merlin Park, Mildenhall,  
Suffolk, IP28 7RD, UK  
Tel: +44 (0) 1638 711955  
Fax: +44 (0) 1638 711953

Data Sheet INST01 Rev 01

Page No 1 of 2

email: sales@pipelinemaintenance.co.uk  
website: www.pipelinemaintenance.co.uk



## CURRENT PROBE FOR USE WITH MULTIMETER



High specification, large jaw current probes with mV output for use with digital multimeters, recorders and other equipment requiring safe, non-intrusive current measurement

**PR620** 60A and 600A ac/dc measurement ranges

### Features

- 50mm diameter conductor size (35mm on PR620)
- Pushbutton automatic DCA zeroing
- High accuracy measurement to 1% of reading
- High noise immunity for power electronics applications
- 20kHz small signal bandwidth
- 1000% overload capacity and low DC remanence
- Selectable continuous operation for logging applications or 30 minute auto-power off for maximum battery life
- Flashing Power-ON LED indicates low battery condition
- Separate battery compartment
- 1.5m silicone cable with right angle 4mm shrouded plugs
- Complies with EN61010-2-32CATIII600V
- 

**Supplied with:** Instruction manual and 9V PP3 alkaline battery

### Technical Specification

Current ranges	60A range: $\pm 1\%$ rdg $\pm 0.1A$
Measuring range	600A range: $\pm 1\%$ rdg $\pm 0.5A$
Accuracy	$\pm 1\%$ relative to centre reading
	35mm
Positional accuracy	15mm x 40mm
Max conductor diameter	DC to 20kHz (for $I_{rms} \times f < 400,000$ )
Max busbar size	$\leq \pm 2^\circ$
Frequency range (-3dB)	60A range: 10mV/A
Phase shift (< 1kHz)	600A range: 1mV/A
Output signal	10k $\Omega$ and $\leq 100pF$
	50 hours typical (alkaline battery)
Load impedance	
Battery Life	
60A and 600A dc/ac rms	
0.5A to 600A dc/ac rms	

## Pipeline Maintenance Limited

Cathodic Protection Engineering and Materials Supply

11 & 12 Merlin Park, Mildenhall,  
Suffolk, IP28 7RD, UK

Tel: +44 (0) 1638 711955

Fax: +44 (0) 1638 711953

**Data Sheet INST01 Rev 01**

Page No 2 of 2

email: sales@pipelinemaintenance.co.uk

website: www.pipelinemaintenance.co.uk

