Technical Datasheet

Magnastart® Energy Meter
Model EMM-1

Features

- This EMM-1 is designed for measuring the output energy of Magnastart® type Shot Exploders on a large liquid crystal display, which is easily read in both daylight and poor lighting underground.

Operation

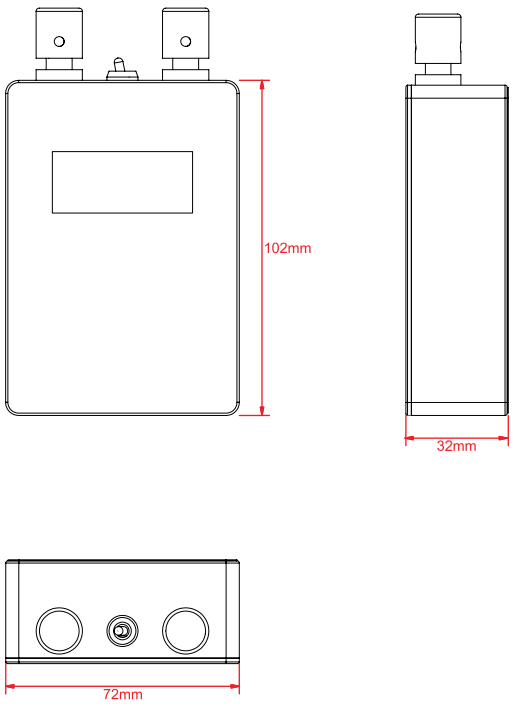
- When the EMM-1 is switched ON, it will automatically reset to zero. The Magnastart® Exploder is then connected in series to its maximum load and to the EMM-1 by means of a Magnastart® toroid; the primary circuit being looped once through the toroid with the secondary loop directly connected to the EMM-1.
- The LCD will display the output energy of the Magnastart® Exploder under maximum load conditions in milli-Joules per Ohm (mJ/Ω).
- Should the output energy be below that specified by the manufacturer, the Magnastart® Exploder must be returned to the manufacturer for repair.
- The EMM-1 is powered by a replaceable PP3 9V Zinc Carbon battery and is capable of 15 hours of continuous use.

Notice and Maintenance

- All service work to be performed by authorised AEC Electronics personnel only.
- Not approved for use in fiery mines.
- The EMM-1 should only be opened to replace PP3 9V Zinc Carbon Battery.
- Exposure to temperatures above 60°C will cause permanent damage to the liquid crystal display.

Specifications

Unit Dimensions



Testing Range		Less than 100mJ/Ω.
Accuracy		±1%±0.02J.
Battery	Type	PP3 9V Zinc Carbon.
	Capacity	Over 15 hours of continuous use. Replace when display shows LO BAT.
Construction		Solid state circuitry encapsulated in silicone rubber.
Unit Dimensions		102mm x 72mm x 32 mm.
Unit Mass		0.33kg.
Temperature Range		-5°C to 45°C.

Warning and Disclaimer

The information and recommendations in this document are provided for reference purposes only and should not be construed as advice to cover every application of the product or variation of conditions under which the product may be used.

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