

MEA100 MAINS PRESSURE LOGGER

DESCRIPTION. The MEA100 Mains Pressure Logger records pressure fluctuations in mains over time. The unit is capable of reading up to 1380kPa and can be concealed in fire plugs and manholes for continuous data recording. It is powered by a replaceable 12V alkaline battery pack and comes with a Swagelok quick-release connection for easy connection to your mains. Logged data is easily unloaded into Magpie software for graphical and tabled data display.



SPECIFICATIONS

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Pressure Transducer.	
Excitation voltage	5V DC powered by internal supply
Output	0.5 - 4.5V
Zero balance	$\pm 2.5\text{mV DC @ } 25^\circ\text{C}$
Non linearity,	$\pm 1\%$ FSO from best fit repeatability, hysteresis straight line
Operating temperature range	$-40^\circ\text{C to } +90^\circ\text{C}$
Compensated temperature range	$-1^\circ\text{C to } +80^\circ\text{C}$
Proof pressure	400 PSIG without damage
Burst pressure	4000 PSIG without bursting
Data Logger.	
Memory capacity	128K bytes CMOS RAM
Log interval	0.125 second to 1 week
Computer I/O	RS-232, 300-38400 BAUD 9600 Standard
Battery	9V alkaline pack
Housing.	
Material	Anodised aluminium
Maximum dimensions	250mm Long X 80mm Diameter
Comms port access	Milspec connector
Pressure transducer access	Swagelok