

SPECIFICATIONS

MODEL	L481
ELECTRICAL SPECIFICATIONS	
Channels	1
Input connection	Two recessed 4 mm safety banana jacks
Input level	-850 V _{DC} TO +850 V _{DC}
Resolution	0.1 V
Accuracy (50/60 Hz)	0 to 5 V: unspecified 5 to 50 V: $\pm(0.5 \% R + 1 V)$ – 50 to 850 V: $\pm(0.5 \% R + 0.5 V)$
Maximum input voltage	$\pm 1020 V_{DC}$
Input impedance	> 150 k Ω
Sample rate	Maximum of 8 per second
Storage rate	Programmable from 125 ms to 1 day
Storage modes	Start/Stop, FIFO and Extended Recording Mode (XRM™)
Recording length	15 minutes to 8 weeks, programmable using DataView®
Memory	240,000 measurement (512 kB). The recorded data is stored in non-volatile memory & retained even if the battery is low or removed
Communication	USB 2.0 optically isolated
Power source	2 x 1.5 V AA-cell Alkaline batteries
MECHANICAL SPECIFICATIONS	
Dimensions	125 x 70 x 32 mm (4,94 x 2.75 x 1.28")
Weight (with battery)	180 g (6.4 oz)
Casing	UL94-V0
Vibration	IEC 60068-2-6 (1.5 mm, 10 to 55 Hz)
Shock	IEC 60068-2-27 (30 G)
Drop	IEC 60068-2-32 (1 m)
ENVIRONMENTAL SPECIFICATIONS	
Operating temperature	-10 to +50 °C (14 to 122 °F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Relative humidity	Up to 85 % to 35 °C (95 °F) non-condensing
Altitude	2000 m
SAFETY & ELECTRO-MAGNETIC COMPATIBILITY	
Safety rating	IEC 61010-1 ; 600 V CAT III ; 300 V CAT IV ; Pollution degree 2
Protection degree	IP40

APPLICATIONS

- ▶ Railway “third rail” monitoring
- ▶ Long-term supply monitoring
- ▶ Detection of intermittent problems
- ▶ Machine monitoring
- ▶ Wind generation monitoring
- ▶ Electric cars



Model L481 includes set of two colour-coded 1.5 m (5 ft) voltage leads, colour-coded crocodile clips (red/black).