

42T.

fuse  ohm

Datasheet

Enhanced maximum demand logging

Designed for retrofit

No external cables

Data historian

Fault detection

FuseOhm is an easily retrofittable maximum demand logger, providing time-sampled periodic data as well as a window of high resolution data to aid with fault analysis.

Built into a simple adapter, the system uses a shunt resistor to measure current, offering a low cost fit-and-forget solution.

The system can be readily configured or upgraded to include external communications, customised data presentation on the local screen.



Technical Summary

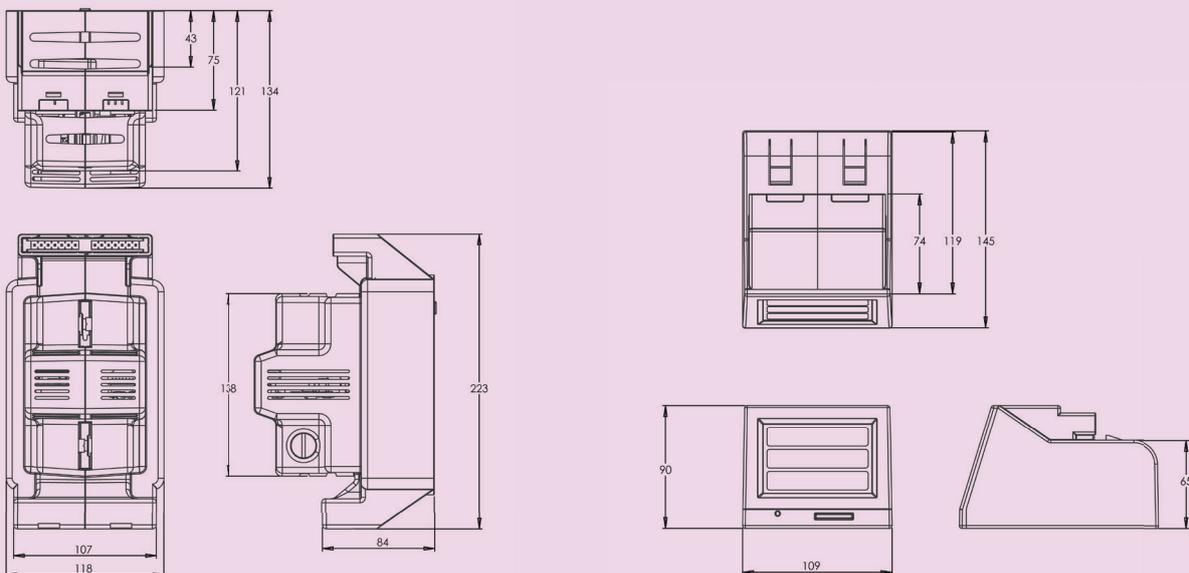
FuseOhm is designed to measure and record current, voltage, power, phase angle and shunt (fuse stalk) temperature.

The hardware is also capable of logging a window of data at a high sample rate, triggered by a rapid change in current, to aid with fault analysis.

It does not impact substation performance and is rapidly and easily installed, at approx. 20 seconds per phase, even in “live” circuits. The system is self-powered – runs off any of 2 of 3 phases. There is no change to existing equipment



Dimensions



Specifications

Metrology

Measurement standards	Class 2
Electrical safety standards	EN 61010-1: 2010
Overvoltage	Up to 300 V (L to N) Category IV. Pollution degree 2
Current measurement range	1 A to 1000 A
Operating voltage and measurement range	70 V to 277 Vrms (P-N) 121 V to 480 Vrms (P-P)
Line frequency	45 to 65 Hz
Power consumption	<6 W

Protection, Environmental & Compatibility

IP Rating	IP20
Electromagnetic compatibility	EN 61326
Surge protection	IEC 61000-4-5: 6 kV 1.25/50 μ s surge pulse
Operating and storage temperature range	-20°C to +60°C
Altitude	Up to 2000 m
Insulation level	Basic insulation
Humidity (operating and storage)	95% non-condensing

Mechanical

Size (h x w x d)	Adaptor - 223 × 118 × 134 mm Display - 90 × 109 × 145 mm
Weight	Adaptor - 1.1 kg Display - 0.4 kg
Impact	BS EN 62262, IK06
Flammability	BS EN 60695-11-20:2015, UL94 V-0
Communications interfaces	Display, μ SD card, ethernet (optional), radio (optional)

Data Logging & Storage

Measurement logging	1 second display update, 1 second to 30 minute data logging interval
Storage capacity	> 1 year
High resolution data	2 second window at a 2 kHz sample rate