



MultiPanel M814

Digital Meters



FEATURES

- The MultiPanel is a low cost 3 phase digital meter in a standard DIN 96 x 96 mm case measuring the basic electrical parameters.
- The standard unit can be used on any wiring system and any voltage between 10V to 415V LN (17V to 720V LL).
- The MultiPanel is simple to use and is an ideal replacement for analogue meters.

PARAMETERS MEASURED

The MultiPanel measures and displays :

- Voltage (V)
- Current (I)
- Frequency (Hz)
- Maximum Demand Amps
- Neutral Current
- Hours Run

DISPLAY

- The display has 3 lines consisting of four digit LED displays per line. There are 14 LED indicators to show which parameter is being read. The bright red LEDs can be clearly read from a distance and over a wide viewing angle.

CONTROLS & PROGRAMMING

- The two front control buttons are for scrolling up or down through parameters being displayed. These buttons also allow programming of different current and voltage transformer ratios and demand times. The programming function can be password protected by the user.

MEMORY

- Current ratios, demand time periods, maximum demand readings and hours run reading are stored in non volatile eeprom memory. In power down (power loss) conditions this data is retained. There is no need for the MultiPanel to be re-calibrated.

SPECIFICATIONS

INPUT

Rated Un:	10V to 415V LN 17 TO 720V LL
Accuracy:	Class 1%
Burden:	0.5VA per phase
Overload:	Maximum 415V LN 720V LL
Rated In:	5Amp (option 1 Amp)
Accuracy:	Class 1 %
Burden:	0.5VA per phase
Overload:	2 x In continuous
Frequency:	45/65Hz

AUXILIARY DUAL VOLTAGES

AC voltage standard:	230/400V
Other options:	57.7/100 or 63.5/110 or 69/120 or 120/208 or 254/440 or 277/480 or 346/600V ±15% 45/65Hz burden <7VA

INSULATION

Test Voltage:	3kV between input auxiliary and case
Impulse Test:	EMC5kV transient Complying with IEC 801 / EN55020 HF
Surge withstand:	IEC801 / EN55020 ANSI C37.90A
Interference:	EHF 2.5kV 1MHz Complying with IEC 255-4
Protection Class:	II complying with IEC348

APPLIED STANDARDS

General:	IEC 688 BSEN60688 BS4889 IEC359
EMC:	Emissions BSEN50081/1 Immunity BSEN50082/2
Safety:	IEC 1010, BSEN601010

ACCURACY

Volts & Amps:	1% ± 2 digits
Frequency:	0.2Hz ± 1 digit
Hours Run:	1% Max count 999999.59

ORDER CODES

M814-VAH can be used on Single Phase, Single Phase 3 Wire, 3 Phase 3 Wire Unbalanced Load or 3 Phase 4 Wire Unbalanced Load. When ordering specify M814-VAH current and which dual auxiliary voltage is required. **Example: M814-VAH 5A 120/277V**



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SPECIFICATIONS

DISPLAY

Digits: 3 lines 9999
Size: 14.2 mm 7 segment

ENVIRONMENTAL

Working Temperature: 0 to + 60 °C
Storage Temperature: -40 to + 85 °C
Temperature Coefficient: 0.01% per °C
Relative Humidity: 0-95% non condensing
Shock: 30G in 2 planes

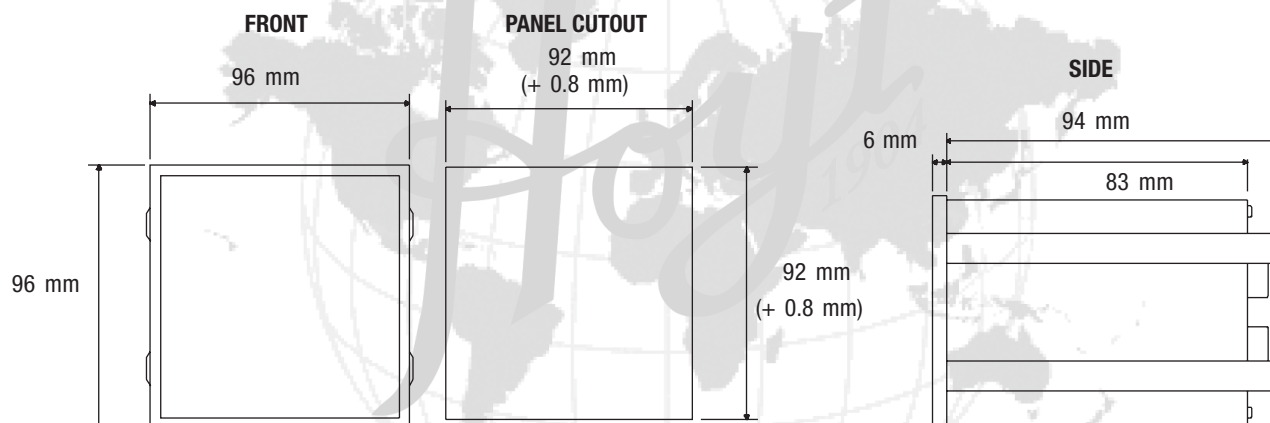
ENCLOSURE

Standard Din case: Din 96 x 96 x 98 mm
Panel mount: Via 4 retaining brackets
Panel cutout: 92 + 0.8mm x 92 + 0.8mm
Material: 94 V0 Black Polycarbonate complying with UL
Terminals: Screws for 2 x 0.5-5mm
IP rating: IP54 / Nema 4
Weight: 0.5kg (1.1lb)

APPROVALS

UL, C-UL, CSA

CASE DIMENSIONS



CONNECTION DIAGRAMS

**CURRENT INPUTS NOT ISOLATED.
 EXTERNAL C.T.s MUST BE USED.**

