

multitek



MULTIPANEL

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

M814-VAH

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

Accuracy

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

Display

The display has 3 lines consisting of four digit LED displays per line. There are 14 LED annunciators to indicate 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.

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 e.g. M814-VAH 5A 230/400V

General Specification

INPUT

Rated Un	10V to 415V L.N. 17 V to 720V L.L.
Accuracy	Class 1 %
Max. Volts	720V
Burden	0.5VA per phase
Rated In	5 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 120/277 or 254/440 or 277/480 or 346/600V ± 15% 45 to 65Hz, burden < 7VA

Insulation

Test Voltage	3 kV RMS 50 Hz for 1 min Between case, input and auxiliary.
Impulse Test	EMC 5kV transient complying with IEC 801 / EN 55020 HF
Surge withstand	IEC 801 / EN55020 ANSI C37.90A
Interference	EHF 2.5 kV 1MHz complying with IEC 255-4
Protection	Class II complying with IEC348 / DIN 57411 / VDE

Applied Standards

General	IEC 688, BSEN60688, BS4889, IEC 359
EMC	Emissions EN61326-1 Immunity EN61326-2
Safety	EN61010

Display

Digits	3 lines 9999
Size	14.2 mm 7 segment

Options

DC Auxiliary	12, 24, 30, 48, 110, 125, 220 Volt (± 15%)
1 Amp Input	

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Environmental

Working Temperature	0 to +60 deg C
Storage Temperature	-40 to +85 deg C
Relative Humidity	0-95% non condensing
Shock	30G in 2 planes

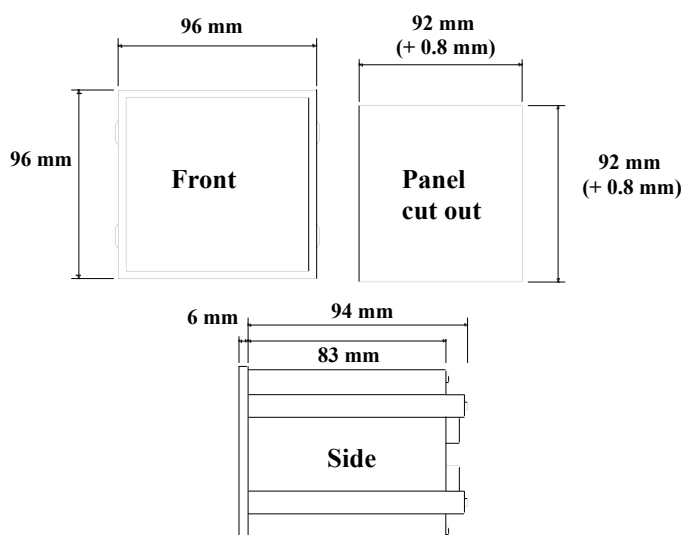
Enclosure

Standard DIN case	DIN 96 x 96 x 98 mm
Panel mount	Via 4 retaining brackets
Panel cutout	92 + 0.8 mm x 92 + 0.8 mm
Material	Black Polycarbonate UL94 VO
Terminals	Screws for 2 x 0.5-5 mm
IP rating front	IP54 / NEMA 4
IP rating terminals	IP20 / NEMA 1
Weight	0.5 kg (1.1 lb)

Approvals

UL, C-UL, CSA

Case Dimensions



Connection Diagrams

