

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% \pm 2 digits
Frequency	0.2Hz \pm 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 BSEN50081/1
Immunity BSEN50082/2
Safety IEC 1010, BSEN601010

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

multitek®

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

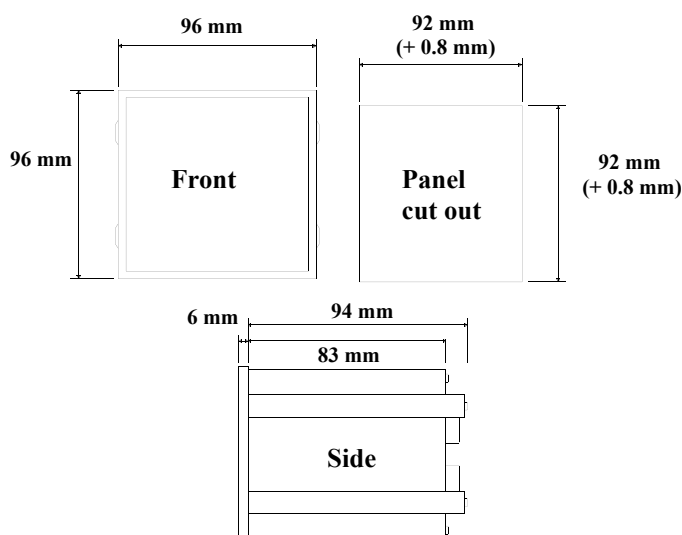
Enclosure

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

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

