

# 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®



誥鑫企業有限公司  
ARITH COMPANY LTD.  
地 址：台北市復興北路427巷30號  
電 話：(02)2717-5038  
傳 真：(02)2717-5039  
e-mail: taipei@arith.com.tw  
網 址：http://www.arith.com.tw

## 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

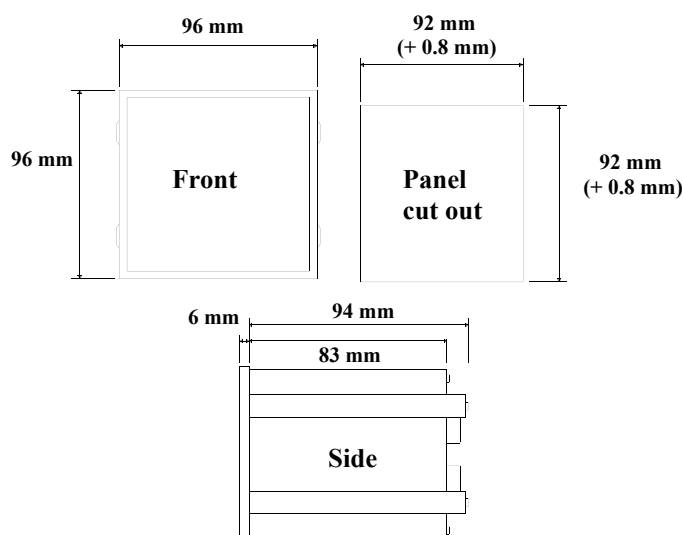
## Enclosure

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.

