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 (17 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

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 LED's 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, 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
M841-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 order specify M814-VAH current and which dual auxiliary required e.g. M814-VAH 5A 230/400V
General Specification

INPUT
Rated Un  10V to 415V L.N. 17 to 720V L.L.
Accuracy  Class 1%
Burden    0.5VA per phase
Overload  1.5 x Un continuous
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: 120/277V
Other options 57.7/100 or 63.5/110 or 69/120
or 120/208 or 230/400 or 254/440
or 277/480 or 346/600V
± 15% 45 to 65Hz burden < 7VA

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 98mm
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 0.5-5mm
IP rating front IP54 / NEMA 4
IP rating terminals IP20 / NEMA 1
Weight 0.5kg (1.1lb)

Approved 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%)

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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

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

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