M850 MULTIFUNCTION METERS

DESCRIPTION

The new range of Hobut multifunction panel meters feature 96 x 96mm sizes complete with unique blue LED screen, which can be seen in direct sunlight. The range is easy to use, features user-programmable CT & VT ratios, and can be used on any single or 3 phase system with any input voltage without re-programming.

APPLICATION

The range is a cost effective replacement for traditional panel meters and is suitable for low, medium and high voltage control panels, gensets, building management systems, power management and more.





RANGE

STANDARD FUNCTIONS:	
Phase Voltage (V)	Power Factor (PF)
Phase to Neutral Voltage (V)	Instantaneous Amp Demand
Phase Current (I)	Instantaneous Watt Demand
Frequency (Hz)	Instantaneous VA Demand
Active Power (W)	Maximum Amp Demand
Active Energy (kWh)	Maximum Watt Demand
Reactive Power (VAr)	Maximum VA Demand
Apparent Power (VA)	Neutral Current Measurement

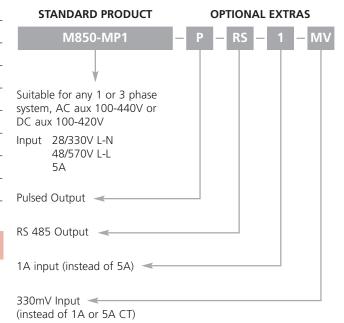
Reactive Energy (VArh)

PROGRAMMABLE FUNCTIONS

All models feature the following user-programmable functions:

- Current Transformer Ratio
- Voltage Transformer Ratio
- Baud Rate, Parity, Stops
- AC or DC AUX
- 1A or 5A CT
- Single or 3 phase system
- Input voltage range 28-570V
- RS485 address, 1-247
- Security code access for programming

ORDERING INFORMATION



Order example: a standard product with RS 485 output is part number M850-MP1-RS

PLUG-IN OPTIONS

Both pulsed output (for Wh or VArh) and RS 485 output (Modbus protocol) are plug in options which can be supplied with the multifunction meter. If purchased separately please use ordering codes on right.





Pulsed Output when ordered separately use part PULSE-M850



RS 485 Output when ordered separately use part RS485-M850

HOBUT



M850 MULTIFUNCTION METERS

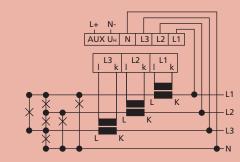
HOBUT

SPECIFICATIONS

ACCURACY

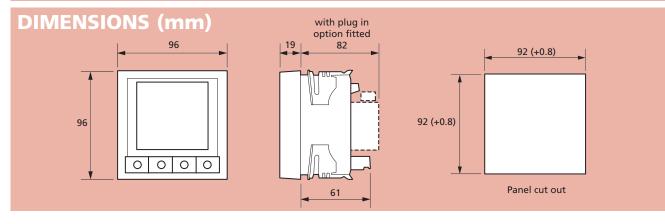
Volts/Amps:0.5% of readingTest Voltage:3kV RMS 50Hz for 1 minute between case, input and aux.Active Power:1% of readinginput and aux.Active Power:1% of readingkS485 output.Apparent Power:2% of rangeImpulse test:EMC 5kV transient complies with IEC 801/ EN55020 HFINPUTIEC 1036 Class 1Surge withstand:IEC801/EN55020 Ansi C37.90AINPUT28-330V LN, 48-570V L-LInterference:EHF 2.5kV 1Mhz complying to IEC255-4Overload:800V continuousProtection class II:Complying to IEC348 / BS4753 / DIN57411 / VDEBurden:0.5-6ASTANDARDSOverload:10 In for 1 secGeneral:IEC688, BSEN60688, BS4889, IEC359Burden:0.5VA per phaseEMC:BSEN61000-6-3:2007, BSEN61000-6-4:2007, Safety:Auxiliary:100-440V AC / 100-420V DCSafety:IEC1010, BSEN601010Frequency:45/65HzWorking temp:0-60°C
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DISPLAY Working temp: 0-60°C
Digits: 3 lines 9999 Storage temp: -40 to +85°C
Size: 14.2mm 7 segment Relative humidity: 0-95% non condensing
Brightness: user adjustable Shock: 30G in 2 planes
OUTPUT RELAY (Wh or VArh) MATERIAL
Pulse output: SPST-NO (10 watt, 300VDC, 500mA) Black polycarbonate case to UL94V0
Pulse duration: programmable from 40msec-200msec Weight: 0.35kg

CONNECTION DIAGRAM



	VOLTAGE				CURRENT		
	L1	L2	L3	Ν	L1	L2	L3
1ph	✓	-	-	1	1	-	-
1ph 3W	✓	1	-	1	1	1	-
3ph 3W	✓	1	1	-	1	-	1
3ph 4W	✓	1	1	1	1	1	1
3ph 3W BAL	1	1	1	-	1	-	-
3ph 4W BAL	1	-	-	1	1	-	-

Unused Voltage terminals are internally connected



Our policy is one of continuous development and therefore specifications may change without notice.

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