M850-LTHN POWER METERS



DESCRIPTION

The new range of Hobut power meters feature 96 x 96mm moulded cases and selectable three colour backlight LCD screens. 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:

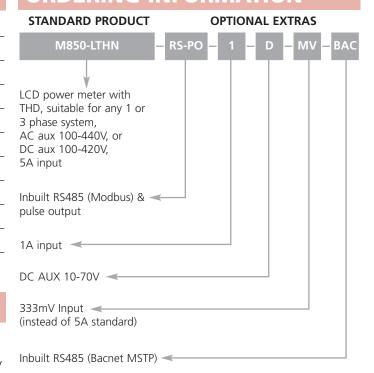
Phase Voltage (V)	Instantaneous Amp Demand		
Phase to Neutral Voltage (V)	Instantaneous Watt Demand		
Phase Current (I)	Instantaneous VA Demand		
Frequency (Hz)	Maximum Amp Demand		
Active Power (W)	Maximum Watt Demand		
Active Energy (kWh)	Maximum VA Demand		
Reactive Power (VAr)	Neutral Current		
Apparent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

PROGRAMMABLE FUNCTIONS

All models feature the following user-programmable functions:

- Selectable Screen Colour
- Current Transformer Ratio
- Voltage Transformer Ratio
- Baud Rate, Parity, Stops
- AC or DC AUX
- 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 RS485 (Modbus) and pulsed output is part number M850-LTHN-RS-PO

CONTROLS AND PROGRAMMING

CONTROLS: 4 front buttons are used for scrolling through parameters and programming

DISPLAY: A unique large custom LCD, with 3 user-programmable colour options

COMMUNICATIONS: An optional RS485 port allows communication via Modbus RTV or BACNET (MSTP) protocol

PULSED OUTPUT: A relay output can be assigned to either W.h or Var.h

INSTALLATION: Supplied with installation guide or download complete installation manual and RS485 Modbus register address at www.hobut.co.uk/power-meters

M850-LTHN POWER METERS



SPECIFICATIONS

ACCURACY

Volts/Amps: 0.5% of reading

Frequency: 0.1 Hz

Active Power: 1% of reading
Apparent Power: 1% of reading
Power Factor: 1% of range
Energy: 16 1036 Class 1

INPUT

Rated Un: 28-330V LN, 48-570V L-L

Overload: 800V continuous
Burden: 0.5VA per phase
Rated In: 0.5-6A (5A nominal)
Overload: 10 In for 1 sec
Burden: 0.5VA per phase

Auxiliary: 100-440V AC / 100-420V DC

(or 10/70V DC)

Frequency: 45/65Hz

DISPLAY

Digits: 4 lines 9999

Custom LCD User adjustable

Brightness: OUTPUT RELAY

Wh or VArh: SPNO rated 50V Pulse output: 150mA 5W AC/DC

Pulse duration: Programmable from 40msec-200msec

INSULATION

Installation category: III (480 V AC ph/ph)

Degree of pollution: 2

Rated impulse withstand voltage: IEC 60947-1-V imp: 4kV

Meters front: Class II Electrical security: IEC 61010-1

Inputs + Aux to case:

Inputs + Aux to RS485 port:

Inputs + Aux to RS485 port:

Inputs + Aux to relay output:

Low voltage dc Aux to Inputs:

4kV rms 50Hz for 1 min
1k5V rms 50Hz for 1 min
1k5V rms 50Hz for 1 min
1k5V rms 50Hz for 1 min

ELECTROMAGNETIC COMPATIBILITY

Immunity to:

electrostatic discharges: IEC 61000-4-2-Level III radiated radio-Hz fields: IEC 61000-4-3-Level III electrical fast transient/brusts: IEC 61000-4-4-Level III impulse waves: IEC 61000-4-5-Level III conducted disturbances: IEC 61000-4-6-Level III

voltage dips & short interruptions: IEC 61000-4-11 Emissions to:

conducted and radiated: CISPR11-Class A

ENVIRONMENT

Working temp: -20 to +70°C Storage temp: -40 to +85°C

Relative humidity: 0-95% non condensing

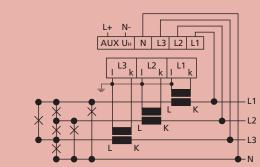
Shock: 30G in 2 planes

ENCLOSURE

Black polycarbonate case to UL94V0

Weight: 0.3kg
IP Rating: IP52 (front)

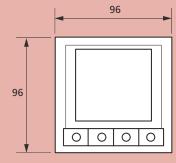
CONNECTION DIAGRAM

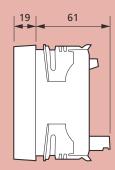


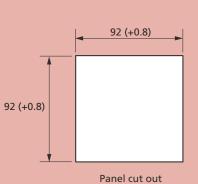
		VOLTAGE				CURRENT		
	L1	L2	L3	N	L1	L2	L3	
1ph	/	-	-	1	1	-	-	
1ph 3W	/	1	-	1	1	1	-	
3ph 3W	/	1	✓	-	1	-	1	
3ph 4W	/	1	✓	1	1	1	1	
3ph 3W BAL	/	1	1	-	1	-	-	
3ph 4W BAL	1	-	-	1	1	-	-	

Unused Voltage terminals are internally connected Secondary of CTs must be connected to earth

DIMENSIONS (mm)







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

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