

Features :

- True RMS measurement
- MID B+D Certified
- 3Ø Power (Active, Reactive, Apparent)
- Programmable voltage and current transformer ratio
- -1A or -5A current transformer input (MID certification only on 5A)
- Single phase or three phase network compatible
- Modbus RTU Communication (RS485)

Certification :  

DIN 70mm

Display Specifications

Display Type	LCD, High definition with white back-light
Digit height	6.35mm (Displayed parameter)
Page scrolling	Manual by front key / or auto scroll mode
Energy maximum display	9999999
Resolution	0.01K, 0.1K, 1K, 0.01M, 0.1M, 1M (depending on CT ratio & PT ratio)

Input specification

Connection	Single phase (CT on L1 only), Three phase four wire																		
Certified voltage range	3 x 85 to 240V (L - N), 3 x 147 to 415 (L - L)																		
Voltage rated burden	<0.2VA																		
Nominal current input	0.05 to 5A																		
Max current (Imax)	6A (1.2 x Nominal)																		
Current Rated Burden	0.5VA																		
Starting current	10mA																		
Short time overcurrent	30 x Imax to IEC/EN62053-21 + 23																		
Impulse voltage withstand	6kV 1.2/50μS 0.5J																		
AC voltage withstand	4kV 50Hz for 1 min.																		
CT primary current	5 to 6000A																		
PT primary voltage	100 to 600V																		
Frequency	50Hz																		
Current distortion factor	According to IEC/EN50470																		
Programming access	Password protected (user selectable)																		
Memory retention	Non volatile memory																		
Accuracy	<table> <tr> <td>Voltage</td> <td>0.5% of full scale</td> </tr> <tr> <td>Current</td> <td>0.5% of full scale</td> </tr> <tr> <td>Frequency</td> <td>0.1% of full scale (L-N >20V)</td> </tr> <tr> <td>Power factor</td> <td>1% of unity</td> </tr> <tr> <td>Active power</td> <td>1%</td> </tr> <tr> <td>Reactive power</td> <td>1%</td> </tr> <tr> <td>Apparent power</td> <td>1%</td> </tr> <tr> <td>Active Energy</td> <td>Class 1, Class B (IEC/EN62053-21, IEC/EN50470-3)</td> </tr> <tr> <td>Reactive Energy</td> <td>Class 2 (IEC/EN62053-23)</td> </tr> </table>	Voltage	0.5% of full scale	Current	0.5% of full scale	Frequency	0.1% of full scale (L-N >20V)	Power factor	1% of unity	Active power	1%	Reactive power	1%	Apparent power	1%	Active Energy	Class 1, Class B (IEC/EN62053-21, IEC/EN50470-3)	Reactive Energy	Class 2 (IEC/EN62053-23)
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Active Energy	Class 1, Class B (IEC/EN62053-21, IEC/EN50470-3)																		
Reactive Energy	Class 2 (IEC/EN62053-23)																		
Displayed Parameters	<p>Voltage – L-L, L-N and average Current – Per phase and average Power Factor – per phase and average Frequency, Power – Active, Reactive and Apparent (per phase and total) Power Min./Max. demand – Active and Apparent power. Energy – Active, Reactive and Apparent (Total)</p>																		

Settable parameter	CT Primary current CT Secondary current PT primary voltage PT secondary voltage Communication address Communication speed (Baud) Communication Parity Communication number of stop bits Back-light time-out period Demand period (for integration) Reset to Factory Default Reset Energy and Maximum Demand Reset Active Energy Reset Reactive Energy Reset Apparent Energy Reset Maximum Current Reset Maximum Active Power Reset Minimum Active Power Reset Maximum Reactive Power Reset Minimum Reactive Power Reset Maximum Apparent Power
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NOTE: Once Programming Mode Is entered The values in red will be locked out after 15 mins. No further adjustment is possible without return to factory.

Auxiliary Supply specification

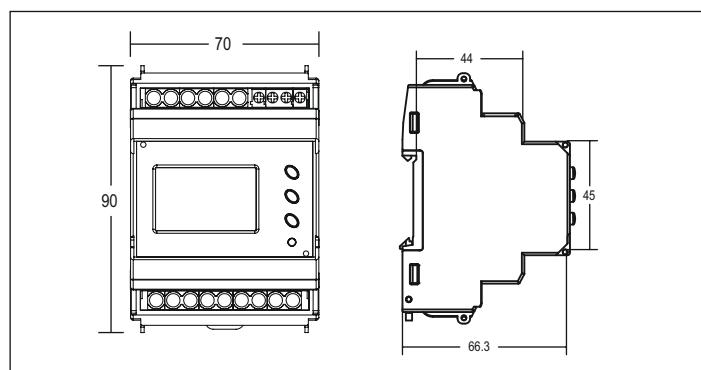
Voltage range	100 to 240V (±15%)
Operating frequency	45 to 65Hz
Power consumption	<8VA



Output Specification

Communication type	RS485
Communication protocol	Modbus RTU
Address	1 to 255
Number of bits	8bits
Parity	None, odd, even
Baud rate (bps)	300, 600, 1200, 2400, 4800, 9600, 19200
Required response time to request	≤100ms
Number of meters connected on the bus	32 (up to 255 with RS485 repeater)
Max distance from Master device	500M

Dimensions (All are in mm)



Insulation

Installation category	III
Pollution degree	2
Insulation voltage rating	300V (L-N)

Environmental Conditions

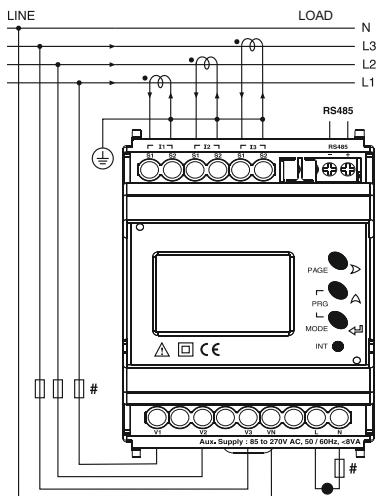
Reference temperature	23°C ±2°C
Specified temperature operating range	-10°C to +55°C
Storage temperature	-20°C to +75°C
Relative humidity	0 to 85%, non condensing
Mechanical environment	M1
Electromagnetic environment	E2

Termination

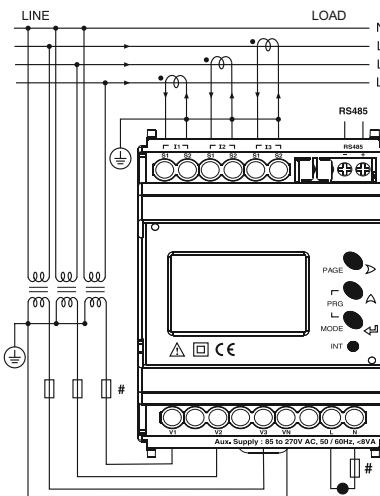
Current input	Terminal type Screw clamp type
Max wire size	2.5mm ²
Voltage input terminal type	Screw clamp type
Max wire size	2.5mm ²
Communication output (RS485)	Screw clamp type
Max wire size	1.5mm ²

Terminal connection

3 Phase 4 Wire - 3 CTs



3 Phase 4 Wire - 3 CTs and 3 PTs



Single Phase 2 Wire - 1 CTs

