



DME D330 three-phase energy meter


electric
ENERGY AND AUTOMATION

DME D330

Three-phase energy meter with CT insertion with RS485 interface



DME D330

Order code	Description	Qty per pkg	Wt
		n°	[kg]
Digital meter for three phase with or without neutral			
DME D330	Connection by CT/5A, RS485 interface, multi-measurements	1	0.332

The three-phase energy meter with CT insertion, model DME D330, has been designed to combine the utmost ease of use with a wide range of advanced functions. Despite the extremely limited dimensions of the modular housing (just 4 modules), the energy meter features the same performance as a high-level device. The backlit LCD display permits a clear and intuitive user interface. The DME D330 also features an isolated RS485 communication interface with Modbus protocol to permit supervision and a tariffing input.

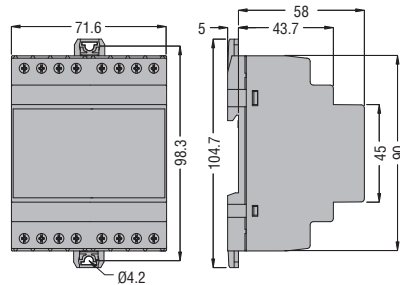
General characteristics

- Three-phase energy meter
- CT insertion
- 4U (72mm) modular construction for DIN rail
- Backlit LCD display
- Built-in RS485 interface
- AC tariffing input
- 3 navigation buttons for functions and settings
- Metrology LED for energy flow indication
- High-accuracy true root mean square (TRMS) measurement
- Active energy measurement according to EN62053-22 class 0.5s
- Active and reactive energy meters, total and by individual phase
- Total and partial energy meters that can be reset
- 1 total hour counter and 4 partial hour counters
- Programmable input (e.g. for tariff selection)
- 2-level password protection for settings
- Backup copy of original settings
- Fitting does not require tools
- Terminal covers that can be lead sealed
- Texts in 6 languages (English, Italian, French, Spanish, Portuguese, German)

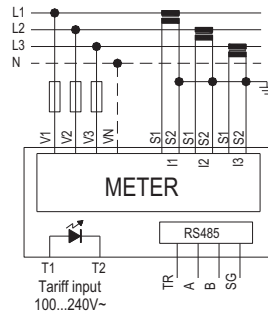
Reference standards

Compliant with standards: IEC/EN 61010-1, IEC/EN 61010-2-030, IEC/EN 61000-6-2, IEC/EN 61000-6-4, UL508 e CSA C22.2-N°14.

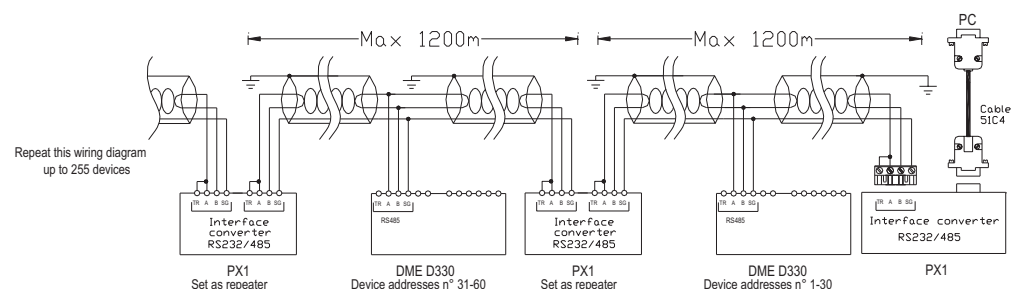
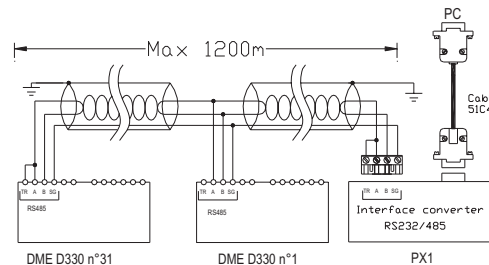
Dimensions [mm]




Wiring diagrams



PC-DME D330 connection via RS485 interface



Technical specifications

AUXILIARY SUPPLY	
Rated voltage (Us)	220...240VAC phase-neutral / 380...415VAC phase-phase The device may operate with or without neutral
Voltage range	187...264VAC phase-neutral / 323...456VAC phase-phase
Rated frequency	50/60Hz
Frequency range	45...66Hz
Power consumption/dissipation	3VA / 1.6W
CURRENT	
IEC maximum current (Imax)	6A
IEC minimum current (Imin)	0.05A
IEC rated current (Iref - Ib)	5A
IEC start current (Ist)	0.01A
IEC transition current (Itr)	0.25A
Burden (per phase)	≤0.3W
TARIFF CONTROL CIRCUIT	
Rated voltage Uc	100...240VAC
Voltage range	85...264VAC
Rated frequency	50/60Hz
Frequency range	45...66Hz
Power consumption/dissipation	0.25VA / 0.18W
ACCURACY	
Active energy (IEC/EN 62053-22)	Class 0.5s
LED PULSE	
Pulse rated	10.000 puls/kWh (referred to CT secondary)
Pulse duration	30ms
RS485 SERIAL INTERFACE	
Baud-rate	Programmable 1200-115200bps
Insulation	4000VAC towards voltage inputs and tariffing input 2000VAC towards current inputs
INSULATION	
IEC rated insulation voltage Ui	250VAC phase-neutral / 415VAC phase-phase
IEC rated impulse withstand voltage Uimp	6kV
IEC power frequency withstand voltage	4kV
MEASUREMENT AND TARIFF / POWER SUPPLY CIRCUIT CONNECTIONS	
Type of terminals	Screw-type (fixed)
Number of terminals	4 for supply / measurement 2 for tariff selection input
Cable cross section (min...max)	0.2...4.0mm ² (24...12AWG)
Terminal tightening torque	0.8Nm (7lbin)
CURRENT INPUT CONNECTIONS	
Type of terminals	Screw-type (fixed)
Number of terminals	6
Cable cross section (min...max)	0.2...2.5mm ² (24...12AWG)
Tightening torque	0.44Nm (4lbin)
AMBIENT CONDITIONS	
Operating temperature	-25...+55°C
Storage temperature	-25...+70°C
Relative humidity	<80% (IEC/EN 60068-2-70)
Maximum pollution degree	2
Overvoltage capacity	III
Altitude	≤2000m
Climatic sequence	Z/ABDM (IEC/EN 60068-2-61)
Shock resistance	15g (IEC/EN 60068-2-27)
Vibration resistance	0.7g (IEC/EN 60068-2-6)
HOUSING	
Version	4 modules (DIN 43880)
Mounting	35mm rail (IEC/EN 60715) or screw-type by means of removable clips
Material	Polyamide RAL 7035
Degree of protection	IP40 on front  , IP20 terminals

 To guarantee the required protection, the instrument must be installed in container with minimum protection rating of IP51 (IEC/EN 60529).

The products described in this publication are subject to be revised or improved at any moment. Catalogue descriptions and details, such as technical and operational data, drawings, diagrams and instructions, etc., do not have any contractual value. In addition, products should be installed and used by qualified personnel and in compliance with the regulations in force for electrical systems in order to avoid damages and safety hazards.

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