



Single-phase energy meters  
DMED121MID  
single-phase 2

Product designation

Product type designation

Type

DIN rail module number

**Auxiliary supply Us**

Auxiliary rated supply voltage AC VAC 230

Auxiliary operating voltage range AC

min	VAC	187
Max	VAC	264

Operational frequency

min	Hz	50
max	Hz	50

Power consumption

Max	VA	1
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Power dissipation Max

W	0.4
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**Measuring voltage inputs**

Rated voltage (Ue)

phase-neutral	VAC	230
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Operating voltage range

phase-neutral	VAC	187...264
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Voltage inputs operational frequency

min	Hz	50
max	Hz	50

Connection method

Direct

**Current**

IEC maximum (Imax) A 63

IEC minimum (Imin) A 0.5

IEC rated (Iref-Ib) A 10

IEC start (Ist) mA 40

Transition (Itr) A 1

**Accuracy**

Active energy	Class B (EN 50470-3)
Reactive energy	Class 2 (IEC/EN 62053-23)

**RS485 serial interface**

Baud rate bps Programmable 1200...38400

**Output characteristics**

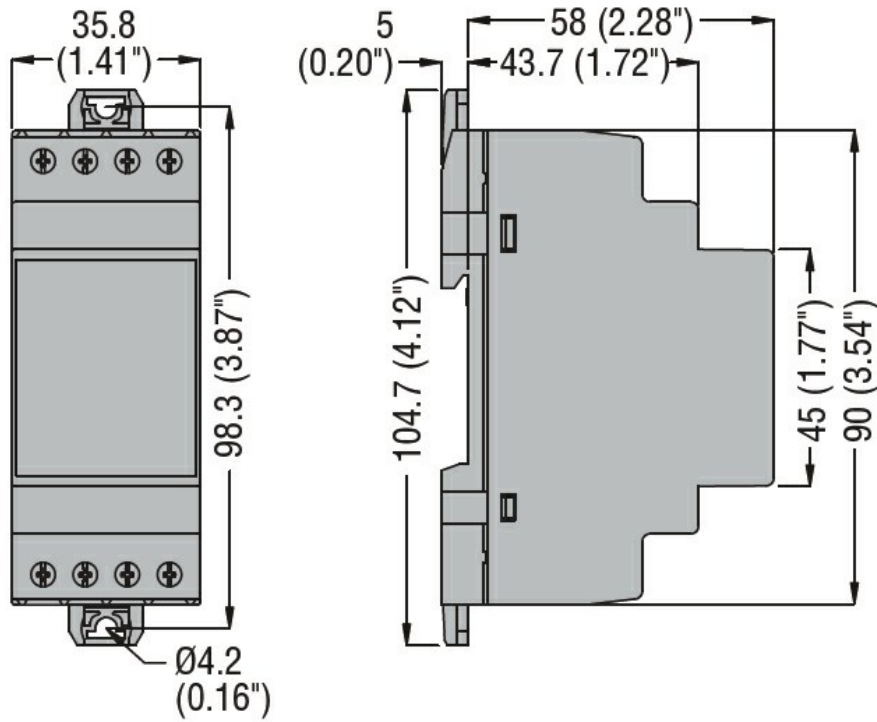
LED Pulse rate pulse/kWh 1000

LED Pulse duration ms 30

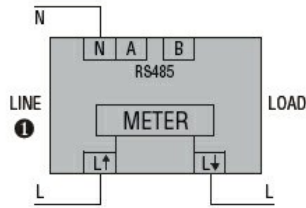
**Insulations**

Rated insulation voltage Ui IEC/EN V 250

Rated impulse withstand voltage Uimp		kV	6
Operating frequency withstand voltage		kV	4
<b>Functions</b>			
Type of communication port			RS485
<b>Mechanical features</b>			
Housing type			Polyamide
Terminals type			Fixed
Conductor cross section			
	min	mm <sup>2</sup>	2.5
	Max	mm <sup>2</sup>	16
	min	AWG	13
	Max	AWG	5
Tightening torque (Max)			
		Nm	1.3
		lbin	11.5
Fixing			Din rail
Weight		g	148
<b>Ambient conditions</b>			
Temperature			
	Operating temperature		
		min	°C -25
		max	°C +55
	Storage temperature		
		min	°C -25
		max	°C +70
Relative humidity		%	<80
Max altitude		m	2000
Maximum Pollution degree			2
Overvoltage category			III
Protection degree			IP40 (Front)
Mechanical environment			Class M1
Magnetic environment			Class E2
<b>Dimensions</b>			



### Wiring diagrams



### Certifications and compliance

#### Compliance

EN50470-1  
 EN50470-3  
 TR 50579

#### Certificates

EAC  
 MID (moduli B + D)  
 RCM

### ETIM classification

ETIM 8.0

EC001506 -  
 Kilowatt-hour  
 meter