



Single-phase energy meters  
DMED121  
single-phase  
2

Product designation			
Product type designation			
Type			
DIN rail module number			
<b>Auxiliary supply <math>U_s</math></b>			
Operational frequency	min	Hz	50
	max	Hz	60
<hr/>			
Power consumption	Max	VA	4.8
Power dissipation Max		W	1.4
<b>Measuring voltage inputs</b>			
Rated voltage ( $U_e$ )	phase-neutral	VAC	220...240
Operating voltage range	phase-neutral	VAC	184...264
Connection method	Direct		
<b>Current</b>			
IEC maximum ( $I_{max}$ )		A	63
IEC minimum ( $I_{min}$ )		A	0.5
IEC rated ( $I_{ref-Ib}$ )		A	10
IEC start ( $I_{st}$ )		mA	40
Transition ( $I_{tr}$ )		A	1
<b>Accuracy</b>			
Measurement conditions (T +23°C ±1°C / Rel. Humidity 45 ±15% R.H.)			
	active energy		Class 1 (IEC/EN/BS 62053-21)
	reactive energy		Class 2 (IEC/EN 62053-23)
<b>RS485 serial interface</b>			
Baud rate		bps	Programmable 1200...38400
<b>Insulations</b>			
Rated insulation voltage $U_i$ IEC/EN		V	250
Rated impulse withstand voltage $U_{imp}$		kV	6
Operating frequency withstand voltage		kV	4
<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	14
	Max	AWG	6;10

Tightening torque (Max)

Nm 2  
lbin 26.5

Fixing

Din rail

Weight

g 148

Ambient conditions

Temperature

Operating temperature

min °C -25  
max °C +55

Storage temperature

min °C -25  
max °C +70

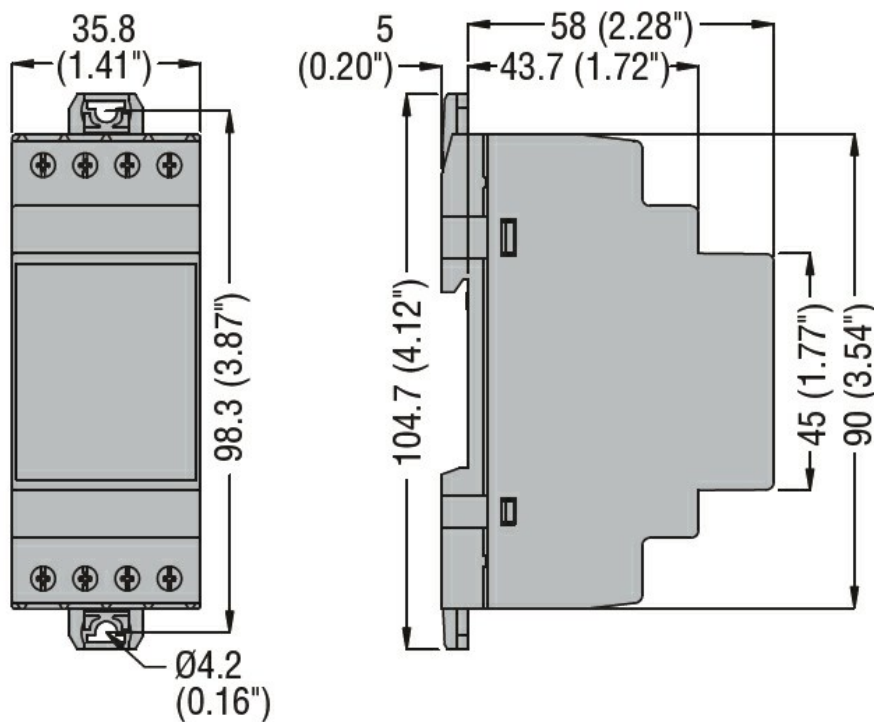
Relative humidity

% <80

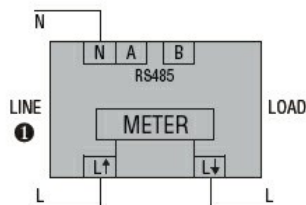
Maximum Pollution degree

2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

EN50470-1

EN50470-3

TR 50579

Certificates

EAC

MID (moduli B + D)

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RCM

ETIM classification

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter