



Single-phase  
energy meters  
DMED120T1  
single-phase  
2

Product designation

Product type designation

Type

DIN rail module number

### Auxiliary supply $U_s$

Operational frequency

min	Hz	50
max	Hz	60

Power consumption

Max	VA	7
-----	----	---

Power dissipation Max

W	0.45
---	------

### Measuring voltage inputs

Rated voltage ( $U_e$ )

phase-neutral	VAC	220...240
---------------	-----	-----------

Operating voltage range

phase-neutral	VAC	184...264
---------------	-----	-----------

Connection method

Direct

### Current

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
---	---

### Accuracy

Active energy	Class 1 (IEC/EN 62053-21)
Reactive energy	Class 2 (IEC/EN 62053-23)

### Output characteristics

LED Pulse rate

pulse/kWh	1000
-----------	------

LED Pulse duration

ms	30
----	----

Static output pulse rate

pulse/kWh	1-10-100-1000 programmable
-----------	----------------------------

Static output pulse duration

ms	100
----	-----

Static output external voltage

VDC	10...30
-----	---------

Static outputs Maximum current

mA	50
----	----

### Insulations

Rated insulation voltage  $U_i$  IEC/EN

V	250
---	-----

Rated impulse withstand voltage  $U_{imp}$

kV	6
----	---

Operating frequency withstand voltage

kV	4
----	---

### Mechanical features

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	17.7

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

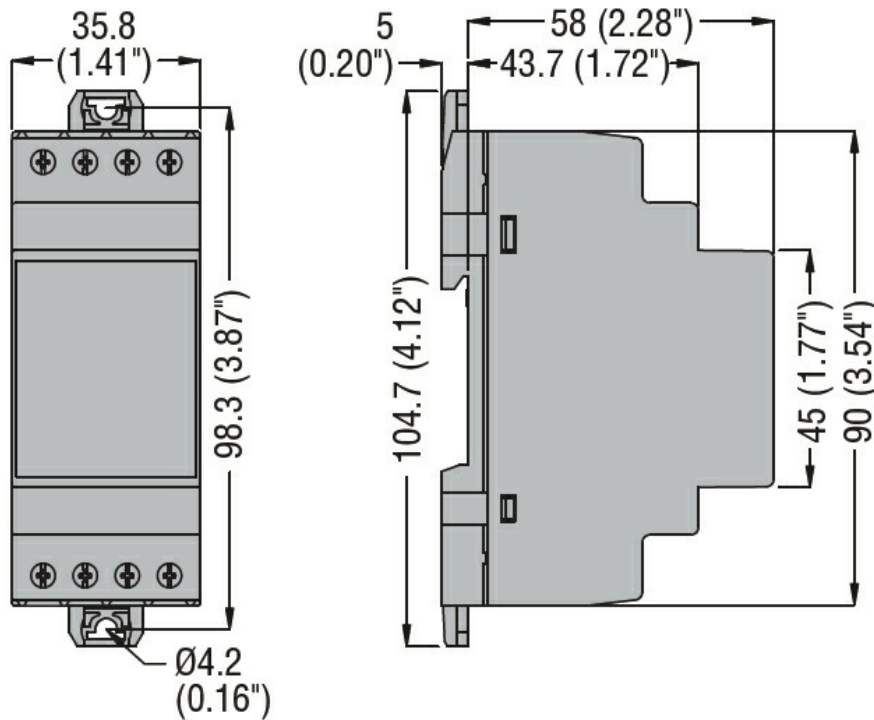
Relative humidity

% <80

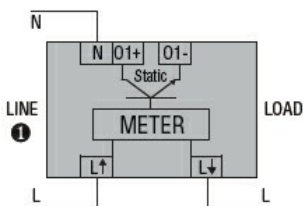
Maximum Pollution degree

2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22-2 n° 61010-1  
EN 50470-1

---

IEC/EN 61010-1

---

UL 61010-1

Certificates

---

cULus

---

EAC

---

RCM

ETIM classification

ETIM 8.0

EC001506 -  
Kilowatt-hour  
meter