



Product designation

Product type designation

Type

DC energy
meters

DMED403D1500

DC

Auxiliary supply Us

Auxiliary operating voltage range
DC

	Max	VDC	31
Power dissipation Max		W	0.9

Measuring voltage inputs

Connection method Direct

Current inputs

Type DC

Current

IEC maximum (Imax)	A	1500
IEC minimum (Imin)	A	15
IEC rated (Iref-Ib)	A	300
IEC start (Ist)	mA	1200
Transition (Itr)	A	30

Accuracy

Reference standards

Active energy

IEC62052-11,
IEC62052-31,
IEC61010-1,
IEC61010-2-030,
IEC62053-41,
EN50470-4
(class B), VDE-
AR-E 2418-3-
100 (Eichrecht),
PTB-A 20.1,
PTB-A 50.7, REA
6A, PTB-8.51-
MB10-Krypto-EN-
V17, Welmec
7.2, UL61010-1,
UL61010-2-030,
CSA C22.2 No
61010-1, CSA
22.2 No 61010-
2-030
Class 1 (EN
50470-4)

RS485 serial interface

Baud rate bps Programmable
1200...115200

Output characteristics

LED Pulse rate pulse/kWh 100

Insulations

Rated impulse withstand voltage Uimp	kV	12.8
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Functions

Type of communication port	RS485
Ethernet-RS485 gateway function	No

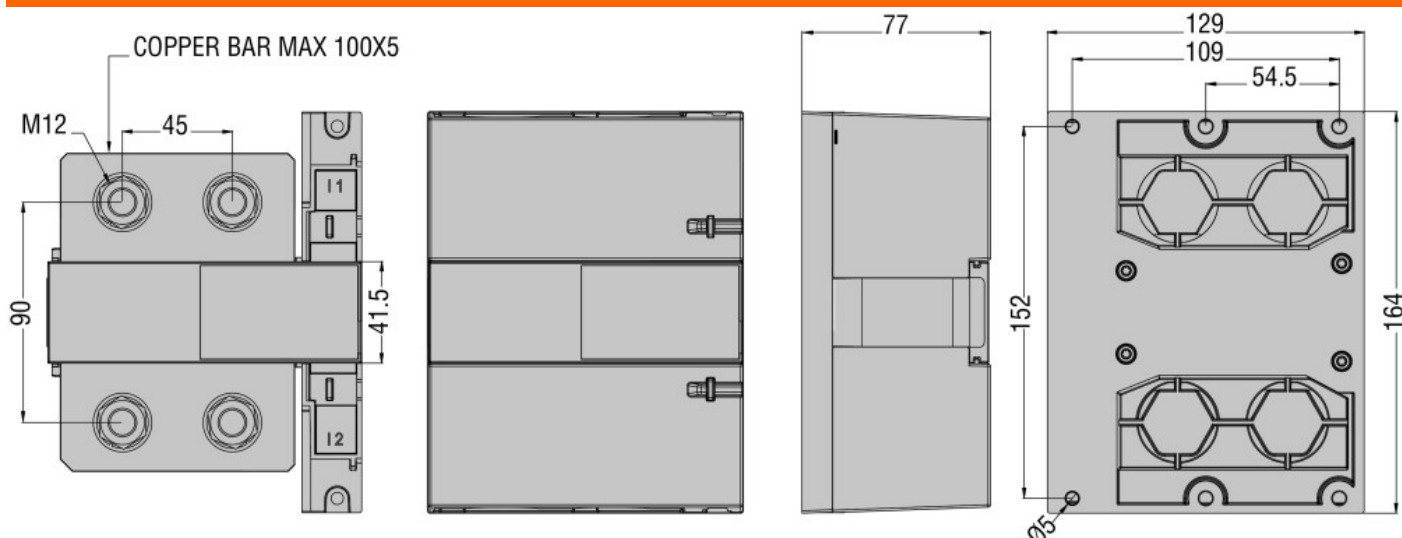
Mechanical features

Housing type	Polyamide
Terminals type	Removable
Tightening torque (Max)	Nm 20 lbin 177
Fixing	Rear mount
Weight	g 1215

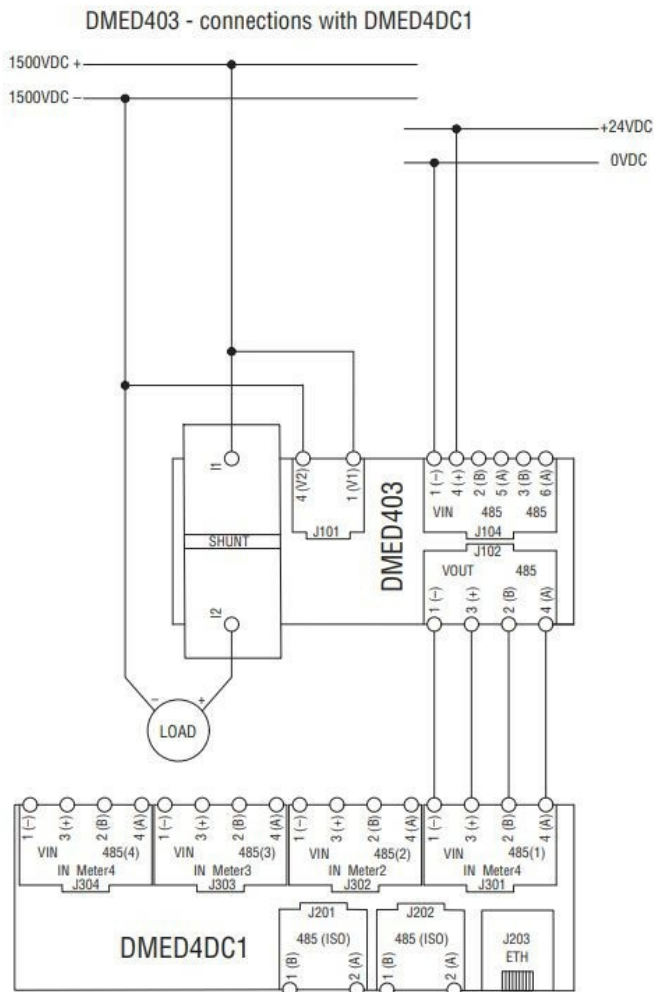
Ambient conditions

Temperature				
Operating temperature		min	°C	-40
		max	°C	+85
Storage temperature		min	°C	-40
		max	°C	+85
Relative humidity			%	<80
Max altitude			m	4000
Maximum Pollution degree				2
Overvoltage category				II
Protection degree				IP40 (frontal), IP20 (terminals)
Mechanical environment				Class M1
Magnetic environment				Class E2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

IEC62052-11

IEC62052-31

IEC62053-41

Certificates

cURus

Eichrecht

MID

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter