



DC energy
meters
DMED403R1500
DC

Product designation

Product type designation

Type

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

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
Active energy
Class 1 (EN
50470-4)

RS485 serial interface

Baud rate	bps	Programmable 1200...115200
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Output characteristics

LED Pulse rate pulse/kWh 100

Insulations

Rated impulse withstand voltage U _{imp}	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
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Ambient conditions

Temperature				
Operating temperature				
	min	°C	-40	
	max	°C	+85	

min	°C	-40
max	°C	+85

Storage temperature

min	°C	-40
max	°C	+85

Relative humidity	%	<80
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Max altitude	m	4000
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Maximum Pollution degree	2
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Overvoltage category	II
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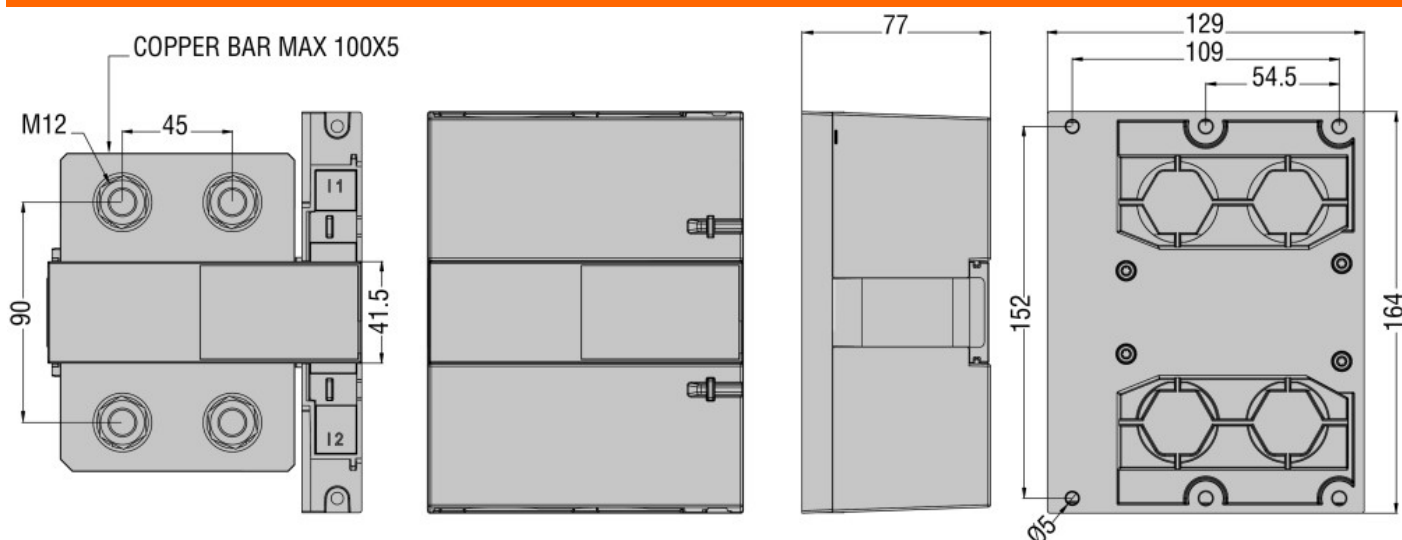
Protection degree	IP40 (frontal), IP20 (terminals)
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Mechanical environment

Class M1

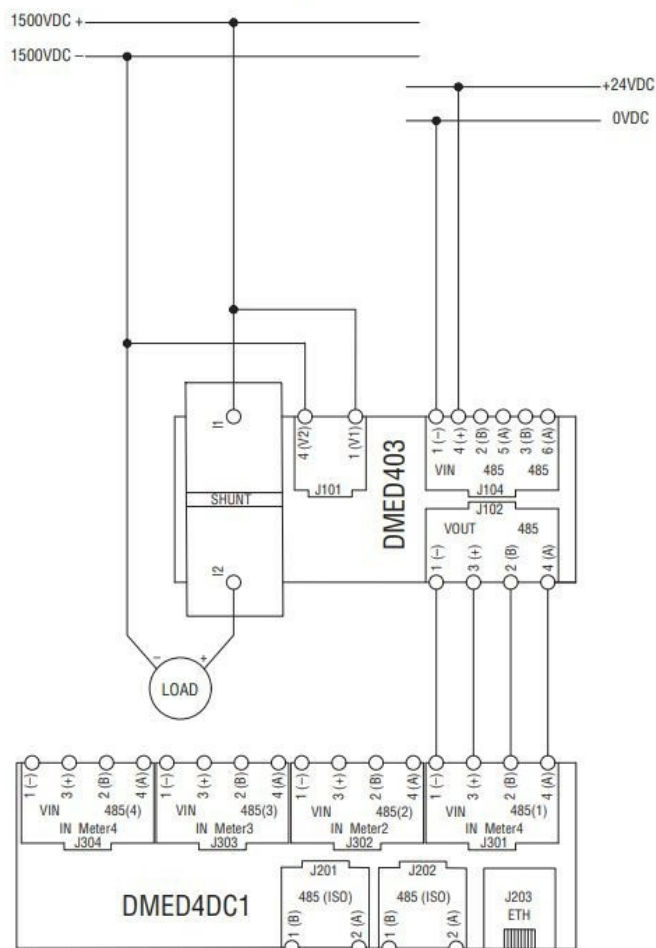
Magnetic environment	Class E2
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Dimensions



Wiring diagrams

DMED403 - connections with DMED4DC1



Certifications and compliance

Compliance

IEC62052-11

IEC62052-31

IEC62053-41

Certificates

cURus

Eichrecht

MID

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter