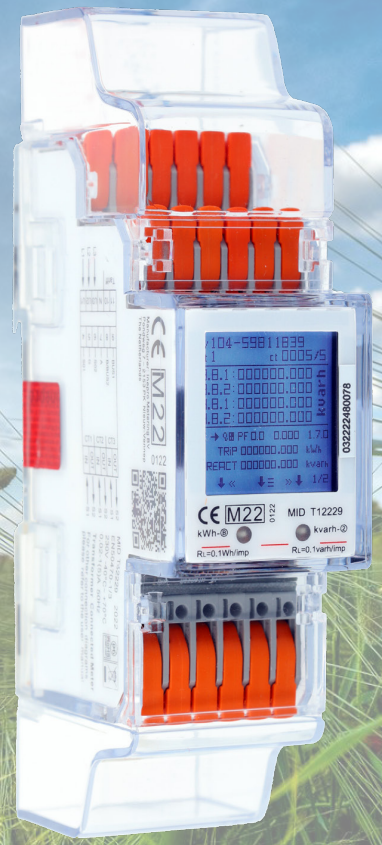
inepro®

Ambition 2PU-CT

Easy-to-install MID/MIR meter



3 YEAR WARRANTY

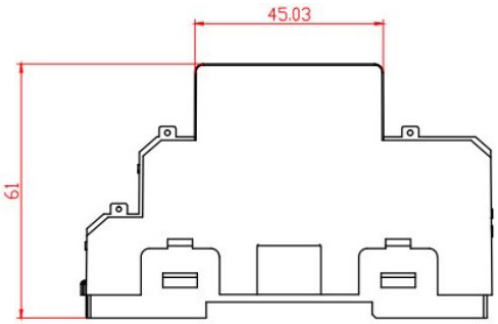
Subject to change without notice

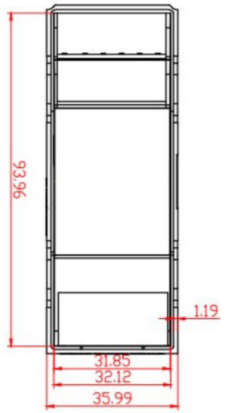
Specifications

Casing:	PC flame resistant plastic
Flammability rate:	UL-94 V0
Nominal voltage (Un):	3x230/400V ±20% AC
Voltage withstand:	4kV for 1 minute
Impulse V withstand:	6kV – 1,2 µS waveform
Imax:	5A
Ib (base):	1A
Operational range:	0.4%Ib-Imax
Overcurrent withstand:	30Imax for 0,01s
Frequency:	45-60HZ
Power consumption:	≤2W/Phase - ≤10VA/Phase (active - reactive)
LED:	10.000 pulses/kWh
Pulse output rate:	10.000/2.000/1.000/100/10/1/ 0,1/ 0,01 imp/kWh
Pulse width:	2~99ms (selectable)
Operating temperature:	-40°C - +70°C
Humidity:	<75%, according to EN50470-1 paragraph 6.2 table 9
Accuracy class:	B
Data storage:	More than 10 years w/o power
Display:	LCD, 6+3 digits
Backlight:	Blue
Installation mode:	DIN rail
Connection:	Indirect CTs, WAGO Push-in CAGE CLAMP®
Tariffs:	4
Communication:	Modbus RTU/M-Bus
IP rating:	IP20, IP51 reached by mounting the meter in an IP51 cabinet

Dimensions

Height without protection cover:	94 mm
Height:	140 mm
Width:	36 mm
Depth:	61 mm
Weight:	260 g (net)





Note: The housing is sealed, do not open the meter!
No warranty if the housing is opened or the seal is removed.

inepro Metering Manager App

The meter can be managed through the inepro Meter Manager App (available for Android and iOS users). See user manual for download and connection details.

Combination code

1. C-01 Forward only
2. C-02 Reverse only
3. C-03 Forward + Reverse
4. C-04 Forward – Reverse (default)
5. C-05 Forward – Reverse*

*Meters ordered or set afterwards to C-05 cannot be set to another calculation mode

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Modbus communication specifications

Bus type:	RS485
Protocol:	Modbus RTU (16-bit CRC)
Baud rate:	1200, 2400, 4800, 9600 (default), 19200, 38400, 57600, 115200
Address range:	1 (default)-247 user settable
Modbus parity:	Even (default), none and odd
Maximum bus load:	60 meters per bus*
Range:	≤1000m
Activated:	C symbol visible during reading

M-Bus communication specifications

Bus type:	M-Bus
Protocol:	EN13757-3
Baud rate:	300, 600, 1200, 2400 (default), 4800 and 9600
Downlink signal:	Master to slave. Voltage modulation
Uplink signal:	Slave to master. Current modulation
Cable:	JYSTY (nx2x0,8)
Unit loads:	001
Maximum bus load:	64 meters per bus*
Range:	≤1000m
Activated:	C symbol visible during reading

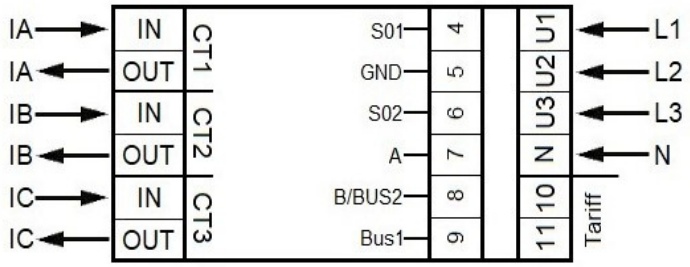
*Note: The maximum number of meters is dependent on the converter, Baud rate (the higher the Baud rate, the smaller the number of meters which can be used) and the circumstances under which the meters are installed.

Normative standards certificates

- MID (2014/32/EU) / MIR (2016) EN50470-1 & EN50470-3 & WELMEC 7.2
- IEC/EN 62052-11, 62053-21, 62053-24

Connection diagram

Indirect – 3P 4W



L1 (in) Phase 1 input - L1 (out) Phase 1 output
L2 (in) Phase 2 input - L2 (out) Phase 2 output
L3 (in) Phase 3 input - L3 (out) Phase 3 output
N Neutral input
4 S0 output 1 (+)
5 Ground (-)
6 S0 output 2 (+)
7 RS485 line A
8 RS485 line B / M-Bus line -
9 M-Bus line +
10, 11: Tariff switching (230V AC)

Other supported connections

- 3P 3W (Aron)
- 3P 3W
- 1P 2W

Note: see user manual for more details.

inepro Metering | Pondweg 7 | 2153 PK Nieuw-Vennep | The Netherlands | +31 (0) 252 744 028 | sales@ineprometering.com | www.ineprometering.com

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