

Ambition 2PU-CT

Easy-to-install MID/MIR meter

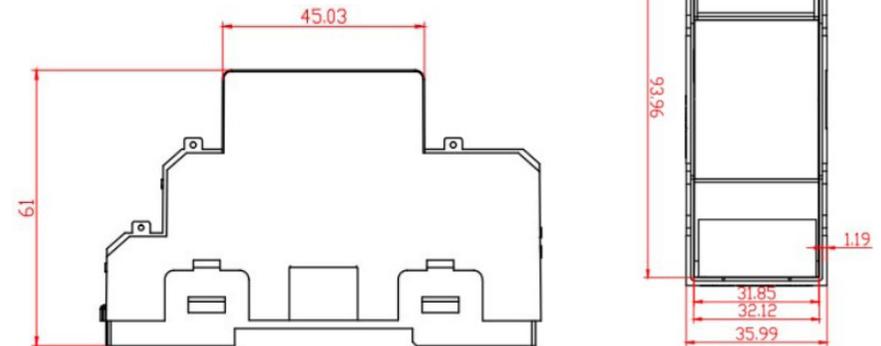


Specifications

■ 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
■ I _{max} :	5A
■ I _b (base):	1A
■ Operational range:	0.4%I _b -I _{max}
■ Overcurrent withstand:	30I _{max} 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

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

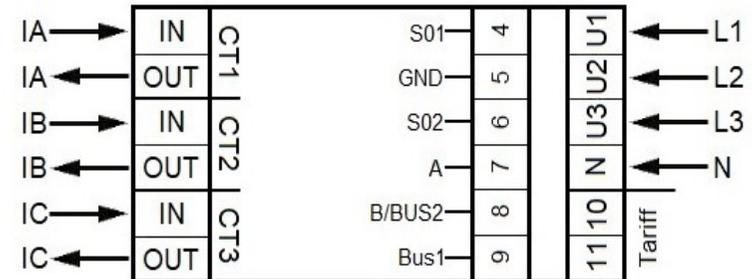
*Note: The maximum number of meters is dependent on the converter, Baud rate (the higher the Baud rate, the smaller the number of meters which can be used) and the circumstances under which the meters are installed.

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 SO output 1 (+)
- 5 Ground (-)
- 6 SO 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.

