1. Description.

The **EC3-6TA** is a four DIN modules energy meter for energy measurement in industrial and civilian applications, available with MID certification and suitable for billing produced by Algodue Elettronica with UEC1P5-4X code.

Picture 1 - Product image

2. Configuration.

Select ratio value pressing SET button for 3 seconds.

Example: TAC250. Ratio to be set is 250A/5A = 50

Picture 2 - SET button position

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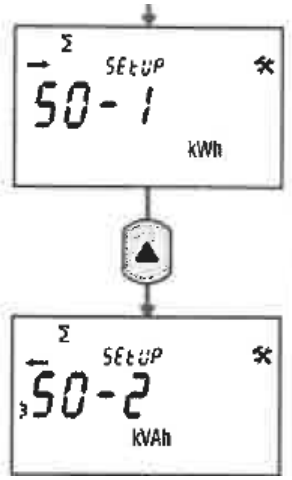
Program digital outputs:

- S0-1 as KWh and exported power ←
- S0-2 as KVAh and exported power ←



METER COUPLED TO S0 OUTPUT (*1-2*)

1. Press ↵, elements identifying the meter (*ex.* →, *kWh*) starts to flash.
2. Press ▲ to change meter to be coupled to proper output.
3. Confirm pressing ↵.

Program **probe**/**datalogger** weight connecting it directly by USB.

Example: with TAC250 ratio 50, weight must be set to 0,025 because meter's datasheet recommends, for TA ratios between 25 and 124, a S0 output with 40 pulses/KWh.

TA RATIO VALUE	S0 PULSES
1 ÷ 4	1,000
5 ÷ 24	200
25 ÷ 124	40
125 ÷ 624	8
625 ÷ 3,124	1
3,125 ÷ 10,000	0.1

NOTE: Active power (*KWh*), capacitive reactive power (*KVArh*) or inductive reactive power (*KVArh*) can be associated to pulse outputs.

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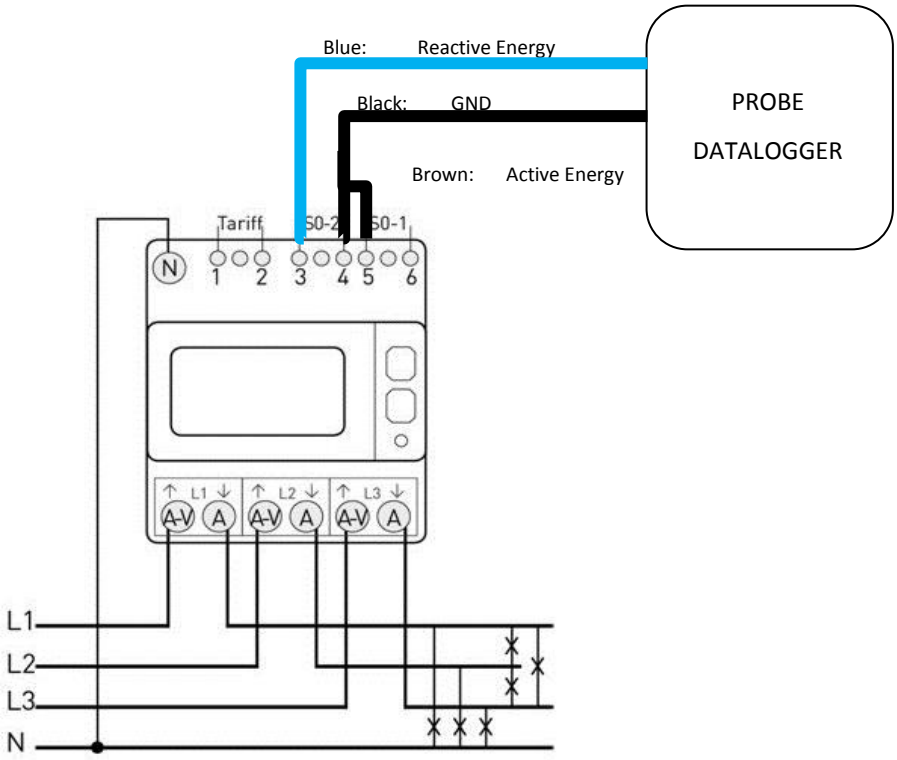
3. Connections layout.

Connect current transformers as follow:

3 PHASES - 4 WIRES - 3 AMPEROMETRIC TRANSFORMERS

Meter works properly also with only one phase connected. In this case backlight is shutted of for energy saving.



Picture 3 - Connections layout

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4. Technical information.

Power supply	• Power supplied from the voltage circuit • Nominal measurement voltage ±20% • Max consumption (*for each phase*): 7.5 VA - 0.5 W • CT burden (*for each phase*): 0.04 VA • Nominal frequency: 50/60 Hz
Voltage - (*Nominal values*)	A) 3x230/400 V 50 Hz D) 3x230/400 ... 3x240/415 V 50/60 Hz
Current	• Startingt I_{st}: 2 mA • Minimum I_{min}: 10 mA • Transitional I_{tr}: 50 mA • Reference I_{ref} (I_n): 1 A • Maximum I_{max}: 6 A
Accuracy	• Active energy class 1 according to IEC/EN 62053-21 (*NO MID*) • Active energy class B according to EN 50470-3 (*MID*) • Reactive energy class 2 according to IEC/EN 62053-23
S0 outputs	• 2 passive optoisolated • Maximum values: 250 VAC-DC - 100 mA • Meter constant according to the set CT ratio: ▪ 1,000 imp/kWh with CT ratio in range 1÷4 ▪ 200 imp/kWh with CT ratio in range 5÷24 ▪ 40 imp/kWh with CT ratio in range 25÷124 ▪ 8 imp/kWh with CT ratio in range 125÷624 ▪ 1 imp/kWh with CT ratio in range 625÷3,124 ▪ 0.1 imp/kWh with CT ratio in range 3,125÷10,000 The measuring unit (*imp/kWh, imp/kvarh, imp/kVAh*) changes according to the assigned counter (*kWh, kvarh, kVAh*) • Pulse length: 50 ±2 ms
Tariff input	• Active optoisolated • Voltage range for tariff 2: 80 ... 276 V_{AC-DC}
Metrological LED	• Meter constant: 10,000 imp/kWh • Pulse length: 10 ±2 ms
Working conditions	• Operative: -25°C ÷ +55°C • Warehousing: -25°C ÷ +75°C • Relative humidity: 80% maximum without condensation
Sealing	IP51 frontal - IP20 terminals
Dimensions	90 x 720 x 64mm

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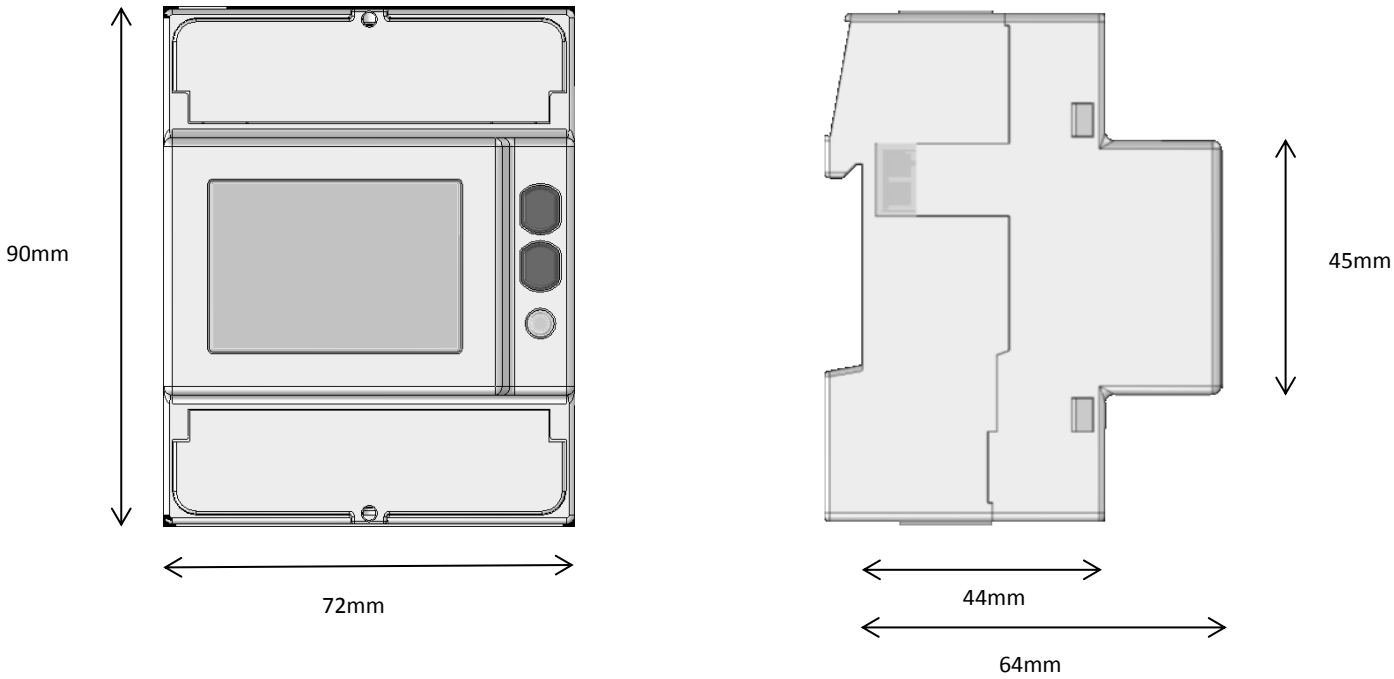
5. Mechanical dimensions.



Picture 4 - Mechanical dimensions

The features shown may be subject to change without notice.

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