

3 PHASE ENERGY METER + NETWORK ANALYZER - DIRECT INPUT - RS485 - TCIDL-MID

The energy meter + network analyzer **TCIDL-MID** measure the energy meter of a three phase network and other parameters such as voltage, current active power, reactive power, apparent, power factor, frequency and maximum demand, in low voltage.

The new TCIDL-MID includes **RS-485** and infrared communication and can connect up to 32 devices in the same loop or 128 devices by using a converter allowing you to control the unit from any computer or network device.

- **Three phase**
- **RS-485 communication. MODBUS Protocol**
- **4 Tariffs** (hourly discrimination capability)
- **Accuracy CL.B Active CL.2 Reactive (En62053)**
- **Direct input up to 80 A**
- **Led indicator**
- **LCD Display 8 digits**
- **Active energy counter resettable**
- **MID CERTIFIED**

NEW

**RS485
4 TARIFFS**



ELECTRICAL PARAMETER

ELECTRICAL PARAMETER	UNIT	TOTAL
3 phase Voltages	V	•
3 phase Currents	A	•
Total and phase active power (P)	kW	•
Total and phase reactive power (Q) *	kvar	•
Total and phase Power factor (Cos φ)	PF	•
Frequency	Hz	•
Maximum demand 4 Tariffs	kW	•
Active energy (EP+) (EP-) 4 Tariffs	kWh	•
Reactive energy (Eq+) (Eq-) 4 Tariffs	kvarh	•

* Read only through communication, not in the display.

TECHNICAL SPECIFICATIONS

VOLTAGE INPUT	
Rated voltage (Un)	3x230/ 400 V AC
Burden per phase	< 10 VA, 2 W
Operating range	± 30% Un
Frequency	50-60 Hz

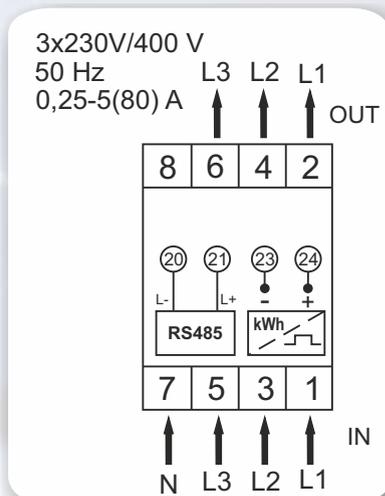
CURRENT INPUT	
Imin - IB (IMAX)	0,25 - 5 (80) A
Burden per phase	< 0,5 VA
Operating range	0-100 % IMAX
Starting current (In)	< 0,4 % IB

PULSE OUTPUT	
Pulse weight	Programmable
Type	SO (DIN 43864)
Insulation	4 kV, 1 min.
Maximum current	< 20 mA
Voltage	< 24 V DC.
Pulse length	> 50 ms

GENERAL FEATURES

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Counter type	LCD Display
Digits	6 + 2 decimal
2 active energy counter	Total and parcial
Class	B active - 2 reactive
Operating temperature	-25 to +55 °C
Energy indicator	LED
RS-485 Port	Modbus-RTU
Infrared port	According to EN 62056
Baud rate	9600 bps
Case material	ABS, UL94 V0
Dimensions	4 modules (70 mm)
Terminals	Sealable
Connection	With screw
Max. wire section:	
Input phase terminals	25 mm ²
Pulses and communications	0,75 mm ²

CONNECTION DIAGRAM



MID CERTIFIED



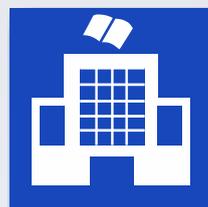
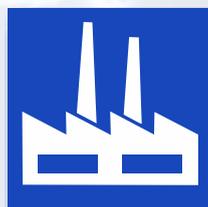
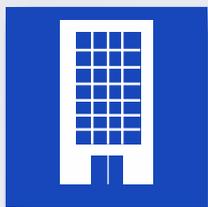
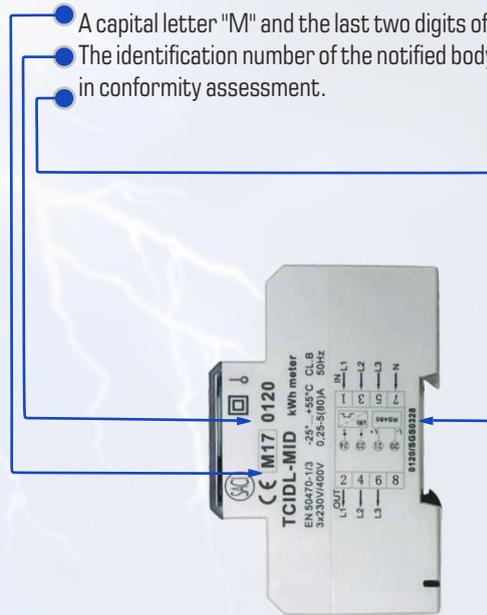
The Measuring Instruments Directive is a directive by the **European Union**, which seeks to harmonise many aspects of legal metrology across all member states of the EU. Its most prominent concept is that all kinds of energy meters which receive a MID approval may be used in all countries across the European Union.

Those energy meters used for billing should have MID certification. Thus, the **quality** of the instruments is ensured having been necessary to control by a notified body that justifies it.

The energy meter TCIDL-MID has the approval that accredits the correct reading of the energy consumed.

Measuring instruments that comply with the MID bear:
The CE mark.

- A capital letter "M" and the last two digits of the year.
- The identification number of the notified body involved in conformity assessment.



There are many situations where control of individual consumption is necessary.

Situations such as when an owner wants to use a meter to measure the power consumption of the apartments in a building, and send individual invoices to the tenants for the energy used.

When the owner of a camping or caravan wants to use a meter to determine the consumption of their customers and charge them.

When the owner of a shopping center wants to use a meter to measure the power consumption of stores within his shopping center and charge them for the energy consumed.

The same situation can occur in offices, student residence, airports and marinas etc. where there is only one official billing meter and partial energy meters are needed.