

TCIL2 & TCIL2B - THREE PHASE ENERGY METER + ANALYZER - INDIRECT INPUT - RS485

The energy meter + network analyzer **TCIL2** and **TCIL2B** 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.

It has **RS-485** with the capacity to connect up to 32 devices in the same loop or 128 through a converter, being able to be controlled from any computer or networked device.

- **Bidirectional three phase energy meter**
- **RS-485 communication. MODBUS Protocol**
- **Active energy counter resettable**
- **Accuracy CL.1 Active Cl.2 reactive (En62053)**
- **Indirect input (x/5 A or x/1 A) programmable.**
- **Led indicator**
- ***Maximum demand (only TCIL2 model, not TCIL2B)**
- **Pulse output: SO (DIN 43864)**
- **Harmonic RMS (1-32) (optional)**

ELECTRICAL PARAMETER

ELECTRICAL PARAMETER	UNIT	TCIL2	TCIL2B
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 apparent power (S)	kVA	•	•
Total and phase Power factor (Cos φ)	PF	•	•
Frequency	Hz	•	•
Active energy import/export (EP+) (EP-)	kWh	•	•
Reactive energy import/export (Eq+) (Eq-)	kvarh	•	•
Reactive energy (Q1, Q2, Q3, Q4)	kvarh	•	•
4 tariff	kWh	•	
THD V and I	%	•	•
Maximum demand V, P, Q, S	-	•	

TECHNICAL SPECIFICATIONS

VOLTAGE INPUT	
Rated voltage (Un)	3x230/ 400 V AC
Burden per phase	< 3 W
Operating range	± 20% Un
Frequency	50-60 Hz

CURRENT INPUT	
Imin - IB (IMAX)	1,5(6) A
Burden per phase	< 0,1 VA
Operating range	0-100 % IMAX
Starting current (In)	3 mA

PULSE OUTPUT	
Pulse weight	Programmable
Type	SO (DIN 43864)
Insulation	3 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	Up to 8
2 active energy counter	Total and parcial
Class	1 active - 2 reactive
Operating temperature	-10 to +55 °C
Energy indicator	LED
RS-485 Port	Modbus-RTU
Baud rate programmable	1200 - 19200 bps
Case material	ABS, UL94 V0
Dimensions	4 modules (70 mm)
Terminals	Sealable
Connection	With screw
Max. wire section:	
Input phase terminals I/V	20 / 5 mm ²
Pulses and communications	1,5 mm ²
Pulse weight	5000 pulses/KWh

CONNECTION DIAGRAM

