

ReadWatt

Optical pulse collector for reading energy meters



Description

ReadWatt is an optical pulse collector equipped with an internal energy meter that can be queried through any Modbus/RTU communication master with the RS-232 or RS-485 network protocol. The unit also has a digital transistor output for the purpose of transferring optical pulses to an external collector through a ratio programmed beforehand by the user (automated or external control element).

Applications

- Fiscal energy meter measurement with optical pulse emitter.
- Accessory for maximum demand control applications.
- Instantaneous electric consumption monitoring.

Technical features

Power supply circuit	Power supply voltage	5...24 Vd.c.
	Consumption	< 0.5 W
Communications	Ports	RS-232, RS-485
	Protocol	Modbus / RTU
Proportional digital output	Type	Transistor (open collector - NPN)
	Maximum voltage	24 Vd.c.
	Maximum current of operation	50 mA
	Pulse duration	Configurable
Build features	Enclosure	VO self-extinguishing plastic
	Protection class	IP 41
	Weight (collector)	20 gr
	Fixing system	Dual adhesive Velcro strap
	Cable length	1.5 m
	Cable type	Flat (8 paths, 0.22 mm ²)
Environmental conditions	Temperature	-15...+55 °C
	Relative humidity	5...95% (without condensation)
	Maximum altitude	2000 m
Standards	EN 55022, EN 61000-4-11, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8	



Accessories

Power Supply PS 100...240 Va.c.	Power supply voltage	100...240 Va.c.
	Frequency	50 / 60 Hz
	Consumption	0.3 VA
	Output voltage	5 Vd.c.
	Maximum load	1 A

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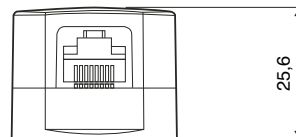
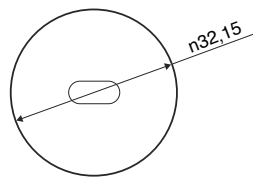
References

Type	Code
ReadWatt	M62311

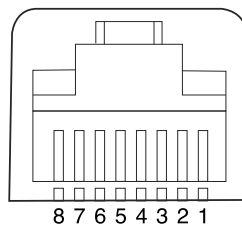
Accesorios

Type	Code
Power Supply PS 100...240 Va.c.	M62331

Dimensions



Connections



- Pin 1: GND
- Pin 2: RS-232 RX
- Pin 3: RS-232 TX
- Pin 4: RS-485 A
- Pin 5: RS-485 B
- Pin 6: GND
- Pin 7: Salida impulsos / Pulse output
- Pin 8: V_{DC} ($5 V_{DC} \dots 24 V_{DC}$)