

Easy installation, no wiring



Interoperable



Plug & Read



Safe



Economical solution

Application

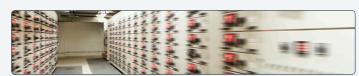
Installations with complex access to the billing meter, such as the following applications:



Industrial installations: major energy consumers with meters sealed by the utility.



Small consumers: low consumption meters with only one communication port not accessible by the user.



Potential control devices: uses the energy value to implement a maximum demand control system.

Technical features

| Power supply circuit | Power supply voltage | 524 V _{dc} |
|-----------------------------|---------------------------|---------------------------------|
| | Consumption | < 0.5 W |
| Communications | Port | RS-232, RS-485 |
| | Protocol | Modbus / RTU |
| Proportional digital output | Туре | Transistor (Open NPN collector) |
| | Maximum voltage | 24 V _{dc} |
| | Maximum operating current | 50 mA |
| | Pulse duration | Configurable |
| Build features | Enclosure | V0 self-extinguishing plastic |
| | Protection degree | IP 41 |
| | Weight (Sensor) | 20 g |
| | Attachment system | Double adhesive Velcro strap |
| | Cable length | 1.5 m |
| | Type of cable | Flat (8-way, 0.22 mm²) |
| Mechanical features | Temperature | -15+55 °C |
| | Relative humidity | 595% (without condensation) |
| | Maximum altitude | 2000 m |

References

| Туре | Code |
|----------|--------|
| ReadWatt | M62311 |

Accessories

| | Code | M62331 |
|---------------------------|----------------------|------------------------|
| PS 100240 V _{dc} | Maximum load | 1 A |
| | Output voltage | 5 V _{dc} |
| | Consumption | 0.3 VA |
| | Frequency | 50 / 60 Hz |
| Supplier | Power supply voltage | 100240 V _{ac} |
| | | |

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Designed by: communication dept. - CIRCUTOR, SA.



Code: C2M673-01



ReadWatt

Optical pulse sensor for meter reading

Reading without limits

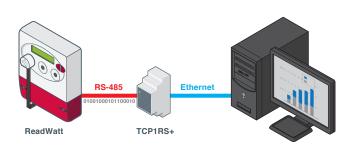


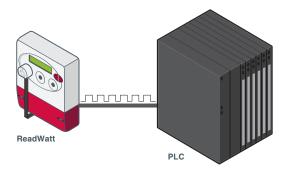


Optical pulse sensor for meter reading

ReadWatt is a digital optical converter, which has an pulse sensor, whose value can be queried by any Modbus/RTU communication master on the market. Its main features are as follows:

- » Optical reader for capturing optical pulses from any energy meter
- » RS-232 and RS-485 Modbus/RTU communications
- » 1 digital proportional transistor output





Micro-power analyzer

Accesses all your meter's energy information without any type of electrical modification of your installation.

Interoperable

Works in any energy meter on the market that has an optical pulse emitter.



Plug & Read quick installation



Safe

Apart from quick and simple installation, **ReadWatt** is completely safe to install, because it does not require any type of electrical modification of the installation.



Reading without limits

Active and Reactive

If your meter has an optical output proportional to the reactive energy, install a second **ReadWatt** sensor. In this way you can control in real time the $\cos \varphi$ value of your installation.

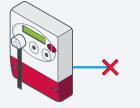


With **ReadWatt** you can extract information from your meter whatever happens:

Sealed meters

ReadWatt allows you to read meters that have been sealed by the utility or without accessing the communication port, only accessing the front panel of the unit.



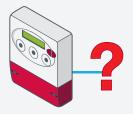


Meters with no communication port

With **ReadWatt** you can equip your meter with a communication port to read energy data.

Energy meters with unknown protocol

It is usual for communications protocols to be complicated and costly to implement. It quickly and accurately accesses the unit's data.



Energy meters with only 1 communication port



Meters often only have 1 communication port, which is usually occupied by the utility. It manages your installation, and provides 1 communication port for the unit, installing **ReadWatt**.