Cyclops photoreceiver

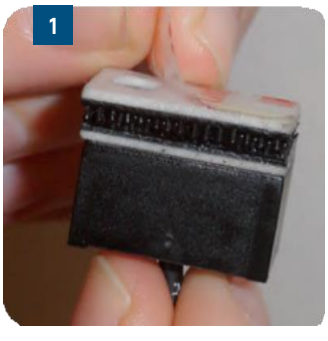
A precise watchful eye on Electrical production and/or consumption

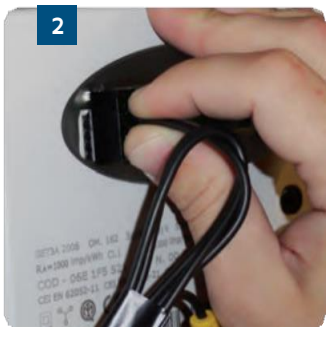
Cyclops photo receiver detect the amount of the Energy produced, consumed and counted from any meter equipped with an optical output (Red and yellow LED). The Photo receiver converts light signals from active energy, emitted by the LED, into pulses. Plants energy consumption can be monitored once the pulses are acquired by the data logger (X-RWU).

Combine the Cyclops with an X-Meter and an XM3, CT's or Rogowsky and Voltmetric probes to acquire and record pulses coming from bidirectional meters. The Cyclops acquires the measurements directly from the same LED used for the instrument's calibration; this guarantees the accuracy of the measure itself.

The installation of the device is simple, quick and non-invasive. Apply a small probe, equipped with a photoreceiver to the meter and connect it to the Cyclops that will then send pulses to an X-RWU or an X-Meter (equipped with XM3).

How to install Cyclops





General	
Dimensions	39 x 78 x 23 mm (module) 22 x 14 x 12 mm (photoreceiver)
Weight	30 g.
Case material	Plastic
Protection rating	IP20
Operating temperature	-20° ÷ +70°C
Relative humidity	95% non-condensing
Other features	External probe with photodiode Cable L = 50 cm
Electrical	
Power supply	+12 ÷ +24 Vdc
Consumption	33 mW / 2,8 mA,
Visual indicators	1 LED, flashes with pulse received
Output	Open Collector: VMAX = 28 Vdc; IMAX = 100 mA
Output pulse length	Settable to 50 o 100 mSec.
Power cable	Sez. 0,25 mm² (AWG 23); LMAX = 500 m Sez. 0,50 mm² (AWG 20); LMAX = 500 m

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