

COMET – Optical Sensing AMR Module

Turn your mechanical meters into smart devices in seconds



- The most cost-effective route to building an AMR infrastructure
- Eliminates the headache of stranded assets – allows you to keep your installed meters in place
- No meter modification is needed
- The only product on the market that makes every existing mechanical meter type AMR-compatible
- Simply snap on the Comet module and within seconds your mechanical meter becomes a smart reader
- Universal interface is compatible with a wide range of existing communication devices and systems
- Comet modules are ready-to-run: Easy-to-use installation tool on a pocket computer adapts the modules to variety of meters, no time-consuming on-site programming needed, no wiring required

The most cost effective way to convert your mechanical meters for AMR (Automated Meter Reading) has finally arrived, and the conversion takes just seconds!

At last it is now possible to introduce AMR infrastructure without having to jettison current, proven mechanical technology. Just snap the installation-ready Xemtec Comet module onto any electricity, gas or water meter, and you have a smart communicating device offering a variety of system interfaces (e.g. low-power RF, GSM/GPRS, M-Bus).

This has been made possible through Xemtec's unique OCR Retina technology, the only solution on the market able to achieve this breakthrough.

Fast, secure and reliable mounting

Once the Comet module is snapped onto the meter it will automatically read the consumption, store the readings at defined intervals if necessary, and transmit them wireline or wireless to the utility network.



Available Comet module types

- Comet XPS-60
Module with pulse output and a serial interface
- Comet XRS-60
Module with low-power RF
- Comet XCEL-60
Module with GSM/GPRS
- Comet XMB-60
Module with M-BUS interface

Optical reader technology

The Comet module, based on highly integrated OCR Retina technology (Xemtec's latest Retina chipset), reads the meter index, stores the data and transmits it over any communication network, wireline or wireless. Xemtec's unique OCR Retina technology integrates advanced image processing into the sensor chip. The technology results in increased reliability and robustness while dramatically reducing power consumption and overall product cost.



Benefits summary

It is now possible to dramatically reduce the cost of deploying AMR communication networks. Comet modules can be used with any communication technology.

- Uniquely, this product makes any existing mechanical meter AMR-compatible
- Simply snap on the Comet module and within seconds your mechanical meter becomes a smart reader
- Comet modules are ready-to-run – no wiring required, no time-consuming on-site programming needed
- Auto-correction capability – the actual index value is read, not the accumulated increments as with pulse-operated readers
- All communication standards – both wireline and wireless – are supported (e.g. low-power RF, GSM/GPRS, M-Bus)
- Minimal running and maintenance costs due to Retina system's high reliability and low power consumption
- Comet modules' sealing lock mechanism prevents tampering
- Multiple usage is possible. The Comet module can be removed quickly and transferred to other meters

Specifications

Dimensions:	116 x 76 x 22 mm
Weight:	175 g
Operating temperature:	-20 ... +60 °C

About Xemtec

Xemtec has developed its breakthrough Retina Technology for use in high-performance, cost-effective scanners, automated meter reading systems (AMR) and other applications. The company offers the technology as ready-to-install modules to utilities and meter reading service providers, as well as to OEM partners.

Xemtec is a spin-off of the Swiss Center for Electronics and Microtechnology (CSEM), and has a strategic technology partnership with this world-renowned high-tech research and development center.

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