PHOTO-BASED FIXED NETWORK READING

What is CYCLOPS®?
CYCLOPS is an innovative AMI solution that eliminates industry requirements for a) 100% meter replacement and b) the construction and maintenance of AMI infrastructure.

CYCLOPS allows utilities to connect to encoded or to non-encoded aka direct read, analog registers. And CYCLOPS transmits data daily via existing cellular data networks. So, CYCLOPS can be installed surgically, rather than systemically - and it can be placed on virtually any water meter.

How does CYCLOPS attach to the meter?
CYCLOPS comes in 2 connection variations (end types): 1) a Camera End unit that affixes to the register and that intelligently photographs the register's odometer dials and 2) a Wire End unit that connects directly to encoded output meters. The Camera End unit is easily installed by cleaning the register and then applying the camera via high bond 3M adhesive material. The Wire End unit attaches to encoders via waterproof 3M burial pods.

What meter brands does CYCLOPS support?
CYCLOPS works with virtually any water meter make, model or type (direct read or encoded output).

What is CYCLOPS' battery life?
CYCLOPS is designed for two (2) battery life options: 10+ years (default, one battery) or 20+ years (special order, 2 batteries). The CYCLOPS' specially designed housing can hold one (default) or two (special order) long-life batteries to accommodate a variety of Return-on-Investment scenarios.

Are the batteries replaceable?
Yes. The CYCLOPS unit has been designed to allow for a straightforward shop replacement procedure. See CYCLOPS Operating Manual.

What is the CYCLOPS Warranty?
Every CYCLOPS unit is warranted for 10 years. 10 Years @ 100% replacement credit. See CYCLOPS Warranty for details.

Is the CYCLOPS waterproof?
Yes. All CYCLOPS units are fully potted to prevent water intrusion and the battery is independently encapsulated for maximum protection of the unit's power source.

How does CYCLOPS obtain a reading from the meter?
The CYCLOPS Camera End unit takes a photo of the meter register and sends the photo to the CYCLOPS Server, which applies proprietary software routines to determine the reading value. The CYCLOPS Wire End unit obtains an encoded reading from the output register and sends the data to the CYCLOPS Server.

What are the CYCLOPS Mounting Options?
CYCLOPS AMI units mount thru metal/plastic/composite lids for optimal performance, or they can be inserted into the slots on the underside of AMI-specific (non-metal) lids. Due to its innovative design, the CYCLOPS MIU's above-ground exposure ensures that it is not a tripping or mowing hazard.

Is the thru lid implementation a tripping hazard?
No. CYCLOPS AMI units mount thru metal/plastic/composite lids for optimal performance. CYCLOPS units mount with a low-profile Lock Nut, ensuring that they are not a tripping or mowing hazard. Likewise, they can be inserted into the slots on the underside of AMI-specific (non-metal) lids.

How are CYCLOPS units installed?
CYCLOPS Camera End units can be installed in less than ten (10) minutes. Register faces are cleaned and prepped for adhering the Camera over the register odometer. Wire End units are spliced to output register wires or posts and covered by burial pods. There is no onsite programming of CYCLOPS units, so once an Installer has magnet swiped the unit and received a green light on the side of the unit, then they are off to the next meter. For further information, see CYCLOPS Operating Manual.

Do you provide Installation Services?
Absolutely. We can arrange for a team of our experts to install your CYCLOPS units, or we can manage a local contractor. Give us a call.

How does CYCLOPS transmit data?
The CYCLOPS transmits every night after midnight via a dedicated channel over existing cellular infrastructure.

Can CYCLOPS be installed within my existing AMR/AMR System?
Yes, CYCLOPS is the perfect 'surgical' AMI solution for underperforming 3rd party AMR/AMI systems. Install CYCLOPS units anywhere in your utility footprint – and they will be operational right away – transmitting over existing cellular infrastructure.

How many readings per day does the CYCLOPS provide?
CYCLOPS Camera End units provide one (1) photo/reading per day. CYCLOPS Wire End units provide 24 readings per day.

Can the photo/reading be shared with the resident at that account?
Yes! You have the option of providing a link to any customer showing their meter reading information and photo. Further, upon CYCLOPS full system integration, there is a customer portal available where residents can access their data via secure website.

Since CYCLOPS units transmit over existing cellular infrastructure, do I need to obtain a call plan for each unit?
No. You don't need to do anything in regard to cellular contracts or charges directly with cellular providers in your area. These charges are included in your CYCLOPS purchase price.

Who is the cell provider for CYCLOPS data?
CYCLOPS use Verizon's nationwide coverage of CAT-M/LTE-M.

Can the CYCLOPS interfere with other electronic equipment?
No, the cellular transmission operates in compliance with the Federal Communications Commission (FCC) regulations to avoid interference with other electronic devices.