

► Good connections



KROHNE

► measure the facts

EtherNet/IP™ interface for KROHNE OPTIMASS mass flowmeters

The new series of the OPTIMASS flowmeters with EtherNet/IP™ interface eases the integration of measurement devices into state-of-the-art control systems and offers a unique communications infrastructure from the IT level to the field.

KROHNE's EtherNet/IP™ interface comes with an embedded web server allowing hassle-free configuration and diagnostics with just a standard office PC or tablet and using the web browser. EtherNet/IP™ enables continuous diagnostics and simplifies integration into complex applications.

Ethernet technology delivers the best of both worlds: exceptional performance, because EtherNet/IP™ is much faster than most other protocols, and significantly reduced total cost of ownership, since Ethernet components are a widely available commodity.



OPTIMASS 1010, 3010 and 7010
with EtherNet/IP™ interface

Easy handling redefined

The integrated web server allows easy configuration and maintenance of the mass flowmeter. Deployment is just as simple, thanks to streamlined programmable logic controller integration based on an EtherNet/IP™ EDS (electronic data sheet). Field device data is well-structured to guarantee quick and convenient commissioning. Coloured LEDs allow diagnostics at a glance.

Reduced total cost of ownership

Ethernet technology ends the need for expensive, protocol-specific components. Ethernet wiring, connection boards and switches are available from a variety of vendors to fulfil diverse needs while remaining inexpensive at the same time. For less complex applications which do not require a dedicated process logic controller, data can also be acquired by a standard PC through its standard Ethernet interface.

Superior performance

EtherNet/IP™ is many times faster than most other established protocols used in process automation today. This allows unequalled fast exchange of process data and virtually instantaneous configuration of the field device. Moreover, digital communication is less sensitive to electromagnetic radiation and comes with inherent fault tolerance. Device construction is very robust, allowing long-term deployment even in the most demanding environments.

Highlights of KROHNE's EtherNet/IP™ interface:

- Convenient deployment
- Fast, flexible and reliable
- Integrates into state-of-the-art controllers
- Reduced total cost of ownership

Highlights of the OPTIMASS series:

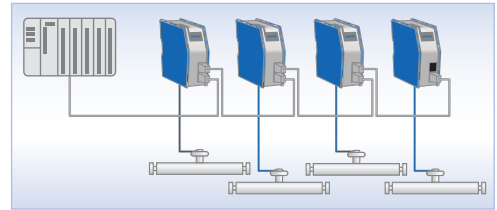
- Direct measurement of mass flow, density and temperature of liquids and gases as well as calculation of volume flow and mass or volume concentration with a single device
- OPTIMASS 1010 – The standard device with an excellent price-performance ratio
- OPTIMASS 3010 – Suitable for extremely low flow rates
- OPTIMASS 7010 – High-end solution featuring a single straight measuring tube

Contact

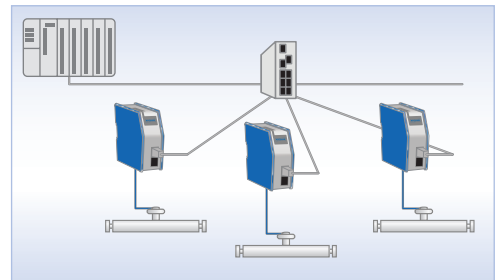
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Network topologies

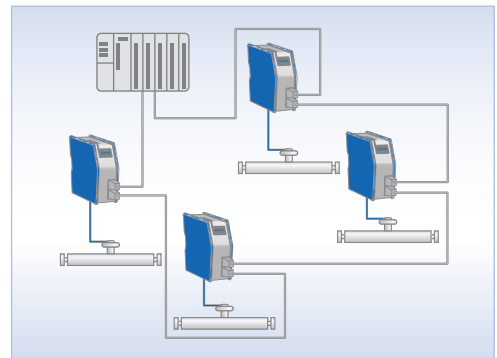
The integrated Ethernet switch allows for line topologies: multiple devices can be connected without the need for an external switch.



Depending on the application, star topology incorporating an external Ethernet switch is also possible.



If the application requires redundancy, the EtherNet/IP™ interface from KROHNE can also be deployed in ring topology.



The integrated web server allows field device configuration and diagnosis using state-of-the-art IT devices, such as tablet PCs.



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