

Improve sensor communication and reduce costs with IO-Link

Endress+Hauser's Fundamental selection features IO-Link technology for basic applications

Every plant, regardless of the industry, has measuring points that are not part of the core processes – things like steam, water or industrial gases. These auxiliary services are best served by basic instruments, as more sophisticated devices simply add unwanted complexity and cost. Endress+Hauser's Fundamental portfolio features simple, easy-to-use products to meet these basic measurement needs. These instruments all utilise IO-Link: a global communication standard for sensors that can integrate devices in virtually any fieldbus or automation system.

In a production plant, high-end devices are interconnected via Industrial Ethernet. IO-Link is an established standard that extends the benefits of digital technology to basic devices. This makes offline parameterisation, data transparency and simple device replacement available for all instruments. There are many advantages of an IO-Link system including easy installation and reduced wiring, increased data visibility, remote configuration and monitoring, and advanced diagnostics.

Installation is simple as IO-Link devices use standard cables, and the detailed status and error data benefits maintenance and operating procedures. Failed devices can be replaced quickly without special knowledge or tools, and parameters are automatically loaded from a central storage point into replacement instruments. This saves times and reduces costs while improving product quality.

Endress+Hauser's IO-Link portfolio supports many process variables including level, pressure, flow and temperature.

IO-Link sensors for level and pressure

[Liquiphant FTL31](#): point level switch for liquids designed for industrial applications in machine-building and all other industries.

[Cerabar PMP23](#): price-attractive and compact absolute or gauge pressure transmitter for hygienic applications.

[Ceraphant PTP31B](#): price-attractive pressure switch for safe measurement and monitoring of absolute and gauge pressure in gases, steam or liquids.

Endress+Hauser's offering also covers temperature and flow

[iTHERM CompactLine TM311](#): measures the process temperature using a Pt100 sensor element (Class A, 4-wire).

Picomag: a space-saving and economical electromagnetic flowmeter for many applications in secondary circuits with conductive liquids.

Mastering the fundamentals

Endress+Hauser's IO-Link products come from the Fundamental selection range – one part of the FLEX structure that helps users to choose appropriately from Endress+Hauser's vast product portfolio. The basic idea of the FLEX structure is that each application has different goals to achieve and different challenges to overcome. Fundamental products are kept deliberately simple, with the number of variants kept to a minimum to make selection easy. There are also fewer features and options than other selections, so installation, maintenance and handling become considerably easier.

Same high quality

Simplicity does not mean lower product quality. The Fundamental range relies on the same quality components as other Endress+Hauser products, and the same technologies that have been developed over more than 70 years in collaboration with industry.

For more information on Endress+Hauser's IO-Link products and Fundamental range, visit

<https://www.uk.endress.com/en/field-instruments-overview/measurement-technologies/fundamental-io-link>