

Digitize the last mile of your plant

Enter the modular world of temperature devices with IO-Link technology with the iTEMP TMT36 temperature head transmitter



iTEMP TMT36 - Simple, smart, digital!

The Form B iTEMP TMT36 is your reliable, long-term stable, single-channel IO-Link head transmitter. It enables the entry into the modular world of temperature devices with IO-Link.

In addition to the CompactLine iTHERM TM311, we are expanding the range of applications and creating the possibility of also using IO-Link for modular temperature sensors, such as in hygienic instruments or our iTHERM ModuLine thermometers. The iTEMP TMT36 offers either a pure IO-Link or a switch output, compliant with the System Specification V1.1.3 and the Smart Sensor profile 2nd Edition.

It is a one channel RTD input device and supports the TID10 plug-in display. The push-in terminals, enable fast wiring and easy installation. In addition, the possibility of individually matching the transmitter and sensor using the Callendar van Dusen linearization further improves the temperature measurement accuracy.



Benefits at a glance

The iTEMP TMT36 IO-Link temperature transmitter is designed for customers in the food & beverage and life science industry focusing on factory automation who want to benefit from cost-efficient devices that can communicate digitally, e.g. to shorten commissioning times and simplify device replacement.

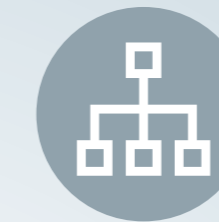
Digitalization of basic devices

Digital communication for simple and affordable products in the fundamental segment via IO-Link technology



High variability

Possibility of installation in all modular thermometers from Endress+Hauser ensures a high level of application coverage



Fast wiring and installation

Available with push-in terminals for fast wiring and easy installation or in the new screw terminal design



Improved and simplified handling

Easy parameterization via free software tools (requires SFP20), fast configuration and commissioning as well as updated HMI and user interface and experience



Long-term availability

Due to an updated technology and reliable long term production capabilities the availability is guaranteed



Individual sensor-transmitter-matching

The possibility of individually matching the transmitter and sensor using the Callendar van Dusen linearization further improves the temperature measurement accuracy up to 0.15 K



Industry focus

The possibility of installing the iTEMP TMT36 temperature head transmitter in all modular thermometers from Endress+Hauser makes the IO-Link advantages usable for a wide range of applications and thereby ensures a high level of application coverage and flexibility. Particularly for the diverse applications in the food & beverage industry as well as basic applications in the life sciences sector, where the industry requirements focus on simplifying integration and application, the iTEMP TMT36 with IO-Link technology is suitable for digitizing the plant.

In combination with modular thermometers specially developed for the high requirements in hygienic processes, such as the iTHERM ModuLine TM411, the unique added value of the innovative Endress+Hauser temperature sensors can now also be digitized for hygienic applications.





Food & Beverage

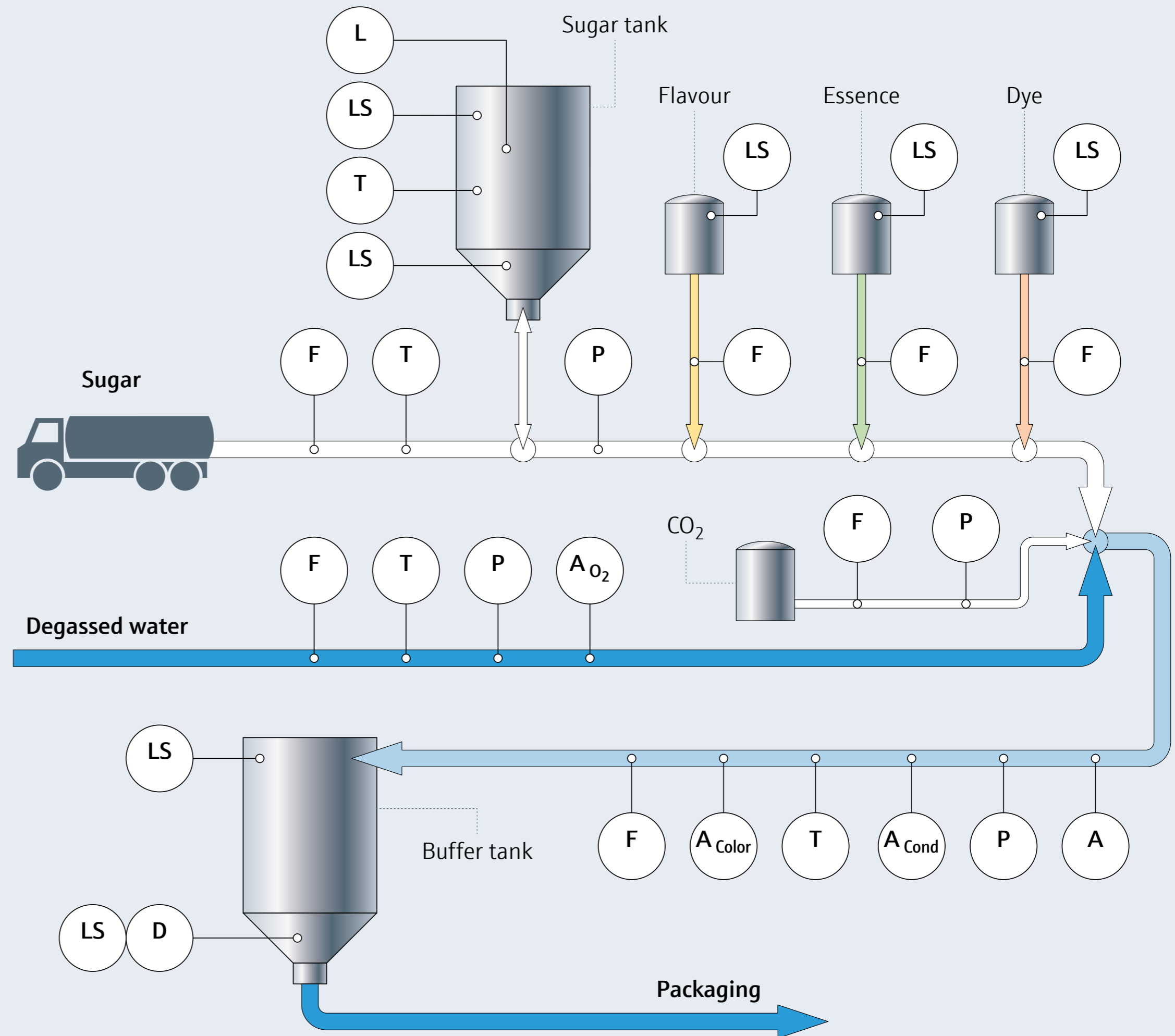
In the food and beverage industry, process monitoring based on accurate temperature measurement is of enormous importance to guarantee the safety of the process and the end product.

Soft drinks, for example, are based on sugar, flavors, essences and color, which are usually already prepared in the form of syrup as a preliminary product. If, for example, sugar is mixed in a plant in solid or liquid form, the exact right process temperature is essential to prevent crystallization and guarantee quality. In order to monitor such critical process stages, to operate the

overall process in an energy-efficient manner and to be able to react quickly, if necessary, absolute control of the temperatures in the process is required at all times.

With our TMT36 transmitter, we are completing our portfolio to enable our customers to digitize our complete range of temperature sensors with all innovative Endress+Hauser features via IO-Link. This is an enormous added value, especially with regard to hygienic processes in the food and beverage industry with many different applications and specific requirements.

Softdrinks syrup preparation and mixing



Life Sciences

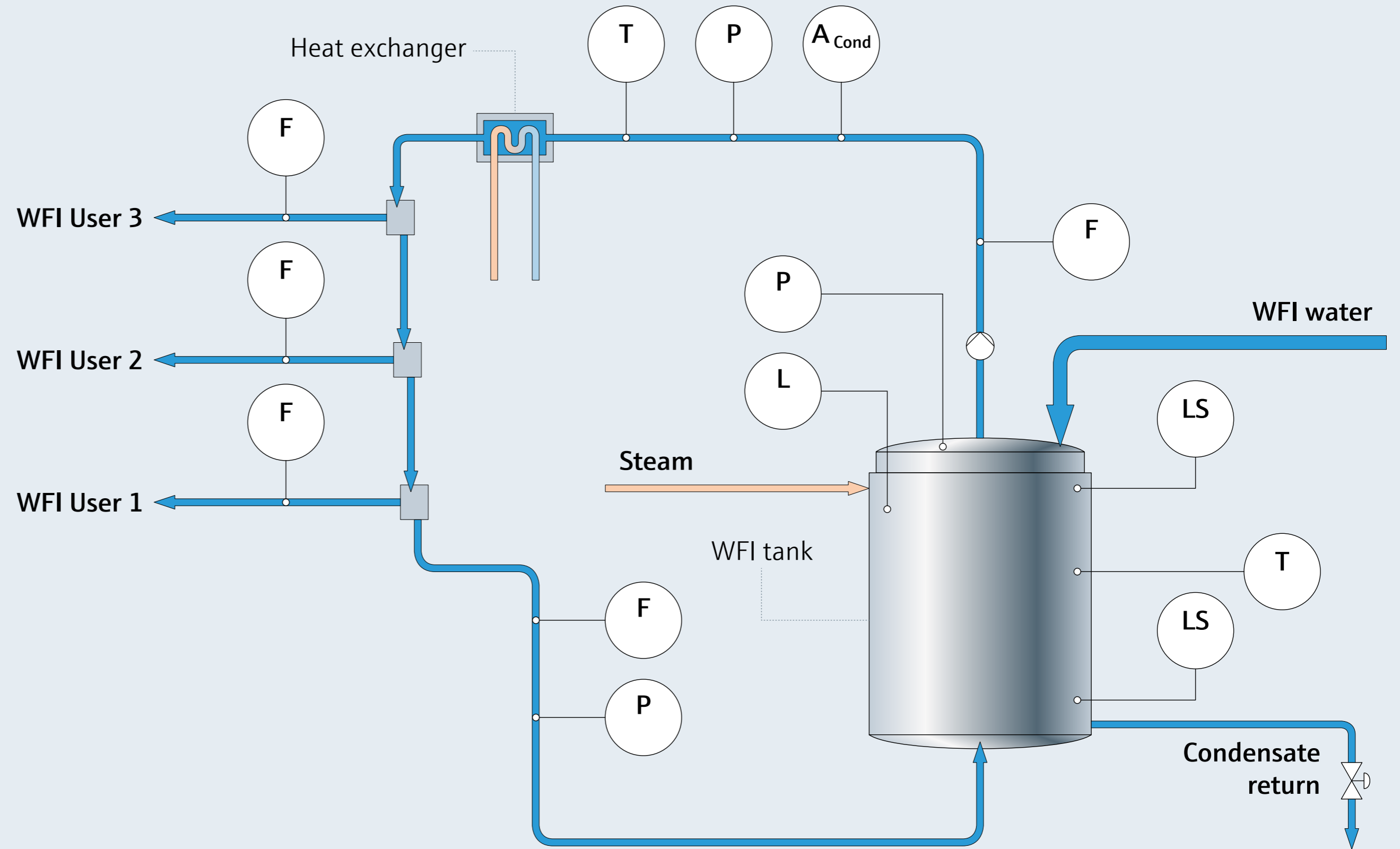
Process monitoring based on accurate temperature measurement is of enormous importance in the pharmaceutical industry to ensure the safety of the process and the end product.

For example, the production and distribution of pharmaceutical water, one of the most critical products in drug manufacturing, is subject to the strictest requirements in terms of product quality and continuous supply. The aim here is to increase productivity and manage risk at the same time.

To meet the high demands for quality, flexibility and consistency, it is essential to have a

complete portfolio of instruments for real-time process verification and quality control from one supplier. With our iTEMP TMT36 temperature head transmitter, we are completing our portfolio to give our customers the opportunity to digitize our complete range of temperature sensors with all the innovative Endress+Hauser features via IO-Link. This enables us to deliver fast, accurate and reliable temperature control in critical processes with easy calibration and digital integration into the process landscape, compliant with all regulations and cGMP standards as well as Pharmacopoeia (EP, USP JP), ASME BPE and ISPE.

C - Water distribution



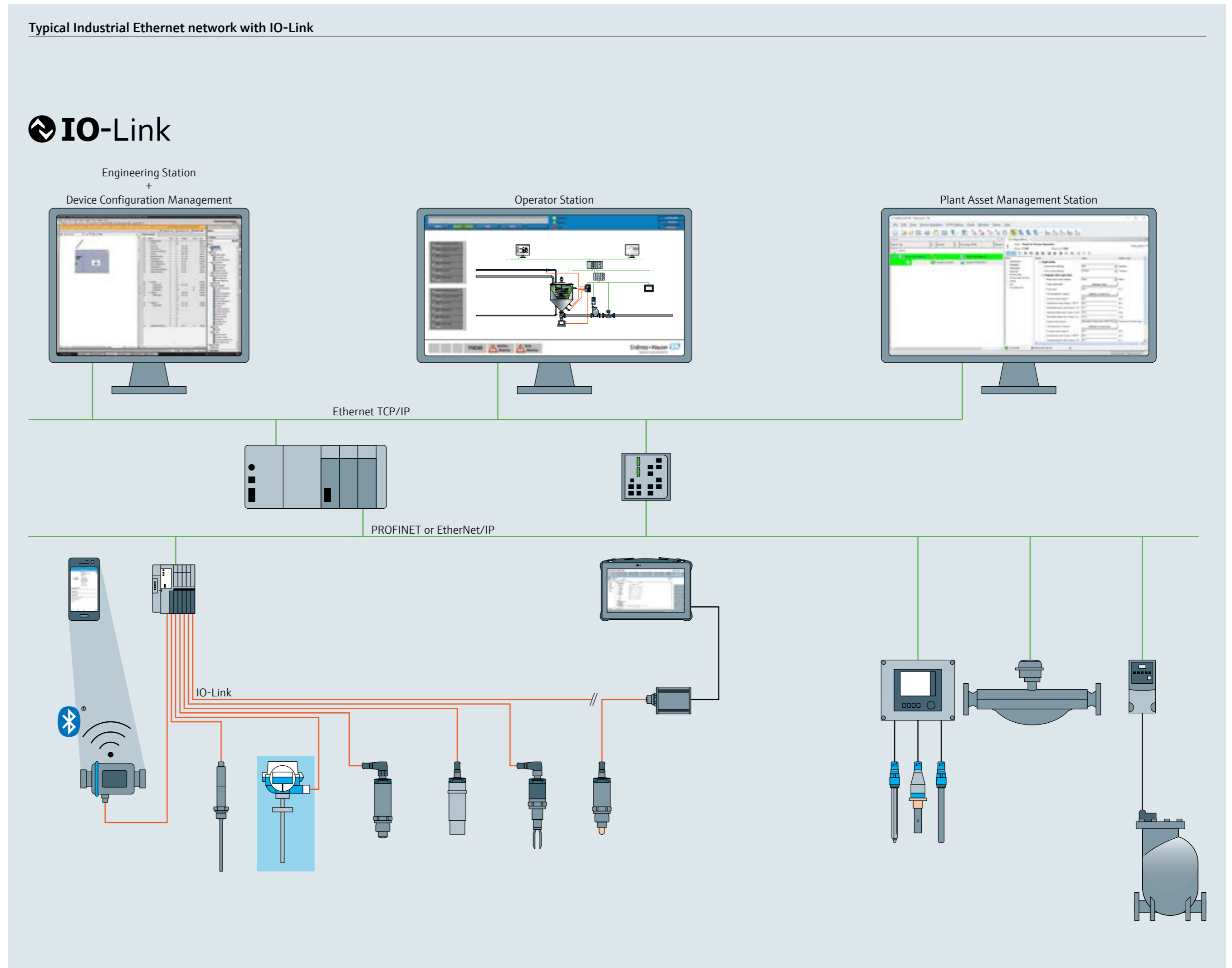
IO-Link communication

Digitalization of the last mile

Smart Ethernet devices like valve islands, remote IOs, recorders, liquid analyzers or flow measurement devices are digitalized with Industrial Ethernet, e.g. PROFINET or EtherNet/IP. Basic devices also become digitally accessible with IO-Link: This makes offline parametrization, data transparency and plug-and-produce device exchange available for all devices.

Benefits

- **Plug-and-produce device exchange**
Time-saving parameterization using the engineering system, no need for additional software. Comprehensive access to device, diagnostics and process information. Fast data upload/download for maintenance and service.
- **Simple operation**
Time-saving Endress+Hauser operating concept. Optimal usability through guided parameterization. User-specific menu structures and device access.



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> iTEMP TMT36

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Temperature transmitter

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Housing form	Temperature head transmitter form B
Input	1x RTD Pt100 / Pt1000
Output	<ul style="list-style-type: none">■ C/Q (IO-Link or switch output)■ IO-Link specification Version 1.1.3
Power supply	U = 18 to 30 VDC, protected against reverse polarity
Performance characteristics	<ul style="list-style-type: none">■ Response time ≤ 0.5 s■ Maximum measurement error 0.15 K
Ambient temperature	-40 to +85 °C (-40 to +185 °F)
System integration	IO-Link via IODD
Approvals	-
Additional information	Plug-in display unit (TID10) available for head transmitters

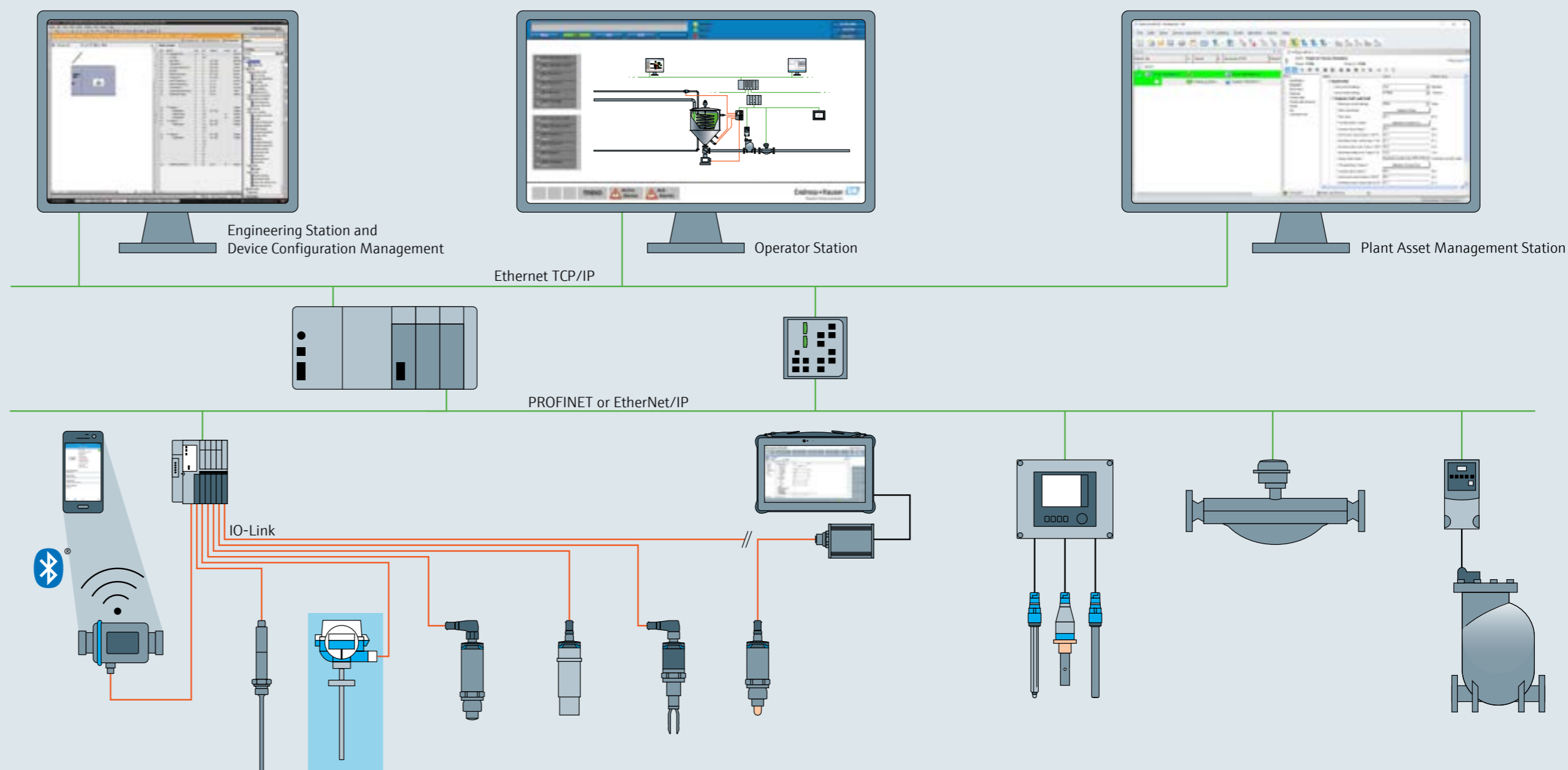
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Temperature transmitter

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> iTEMP TMT36

System integration and architecture
Typical Industrial Ethernet network with IO-Link



Related offering

Feature

Local display TID10

- Permanent process monitoring or temporary application for service and maintenance work
- Clear information and diagnostic messages directly at the measuring point
- Inverse display possible (180°)
- Hardware lock via DIP-switches

Combination with modular Endress+Hauser thermometers

- Possibility of installation in all modular thermometers ensures a high level of application coverage as well as a high degree of flexibility

FieldPort SFP20

- USB modem for the configuration of IO-Link devices

People for Process Automation



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