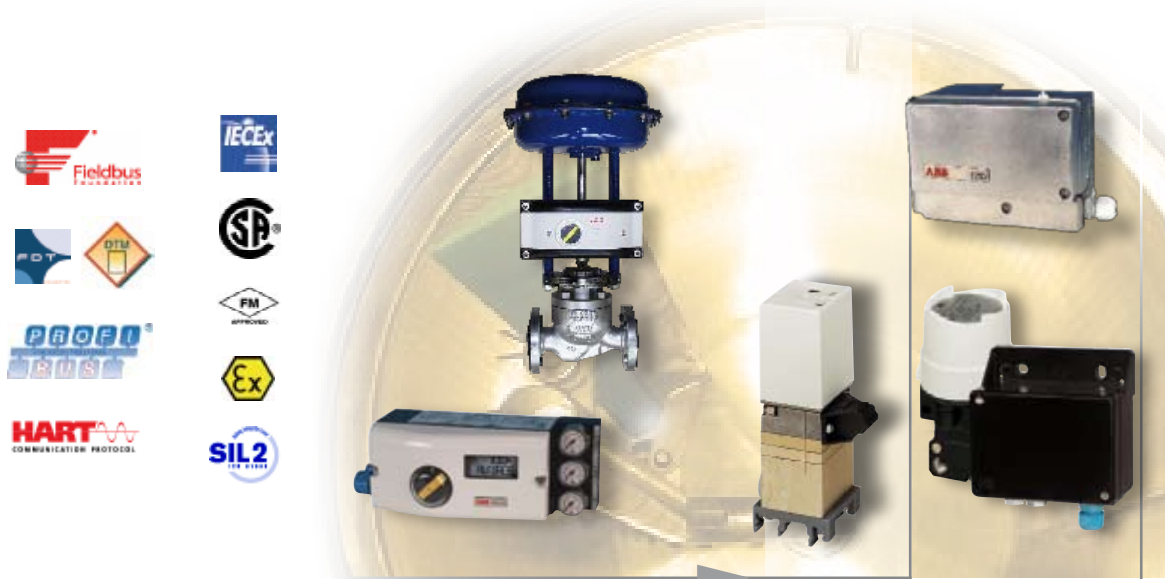


Digital Positioners and I/P Signal Converters

Precise and economic management of industrial processes



- Worldwide proven technology
- Extremely robust: resistant to shock and vibrations up to 10 g
- Broad temperature range: -40 °C to +85 °C
- Intrinsic safety and flameproof design
- Simple push-button commissioning and fully automated calibration

ABB Instrumentation



Technology to rely on – made in ABB

In control of your processes



Industrial processes have to run in a precise, safe, reliable and cost effective way. The I/P Signal Converters and Digital Positioners from ABB with their unsurpassed functionality contribute considerably to these aspects. The pneumatic equipment controls valves via compressed air and thus regulates process values such as thrusts, flow or temperatures of any kind. ABB products operate day after day, a million fold all over the world in the most diverse industries and under the most adverse conditions with the utmost precision and reliability.



Ultimate System Reliability

In an experimental plant the ABB equipment achieved over five million make-and-break cycles without failure. In practice this means: Don't just expect optimization of your industrial processes, but also count on a trouble- and maintenance free operation for many years.

Robust and indestructible

- Temperature range from -40°C to +85°C
- Impact of < 1% due to shocks and vibrations of up to 10 g and 10–80 Hz
- Protection class to IP 65/NEMA 4X
- Durable aluminium casing
- All international Ex-protection approvals (ATEX, FM, CSA, IEC, SAA, Gost)

Service matters

ABB stands for more than 100 years of experience in process automation technology. With 178 branches worldwide ABB Service helps you to optimize your operation. In co-operation with you we will find the most appropriate and economic instrumentation solution for you. ABB furthermore offers excellent support regarding calibration, installation and maintenance. Rely upon our experience – wherever you are.

Easy installation and operation

- Quick commissioning as well as simple push-button initiation
- No additional investment for specialized training, but effective and intuitive handling on site, via PC, handheld terminal or via control center
- Only standard equipment (4–20 mA powersource) is required for commissioning of fieldbus devices
- Hot Swap: immediate operation following data transfer from another positioner

Flexible – the product for today and the future

- Modular assembly for individual configuration
- Fits to all available valves worldwide
- Configuration changeable at any time
- User specific characteristic for flexible application and precise control
- Optional mounting position



Applicable to almost all industries

- Chemical / Petrochemical
- Oil & Gas
- Energy- & steam generation
- Pulp & Paper
- Food & Beverage
- Pharmaceutical
- Water & Wastewater

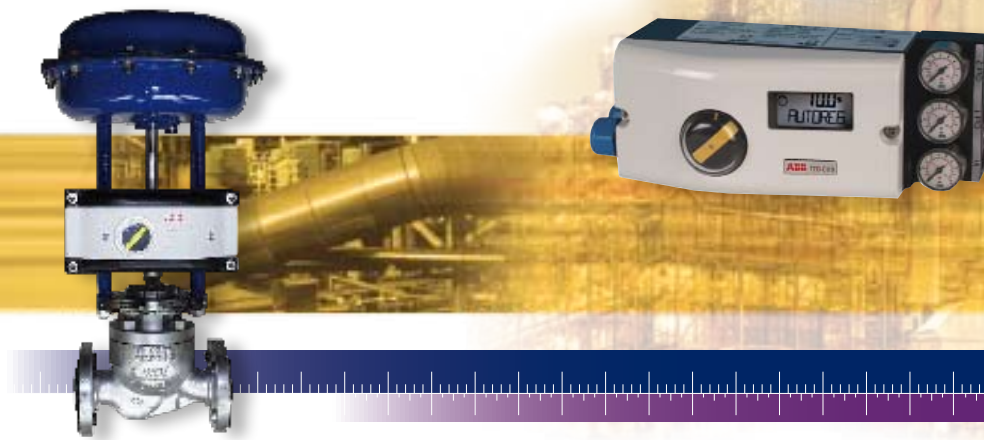
Versatile features and options

- Extension material for all valve manufacturers
- Manometer blocks
- Filter regulators
- Modules for analog and digital feedback
- Safety-shut-down-function
- Mechanical position indicator

The compact all-rounder

Digital Electro-Pneumatic Positioner TZIDC

The Positioner TZIDC sets the standard for safe and economic control of industrial processes – with its compact dimensions, comprehensive functionality, high precision and robust construction. In addition it offers all commonly used digital communication protocols with the control in an efficient and cost effective way. For whatever valve or industry you utilize it – the TZIDC will handle every task.



Universal field of application

- For linear- or part-turn actuators
- For single or double acting actuators
- For actuators with or without spring return
- With fail-freeze and fail-in-place safety function
- Compact dimensions
- Ideal for harsh environments
- Protection class IP 65/NEMA 4X (design with aluminium casing)

Intelligent from the very beginning

- Functional at the push of a button within seconds after installation
- Fully automated determination of control parameters and adaption to final control element
- Customizable valve characteristics

High operational safety

- Continuous micro-processor-controlled positioning
- Automatic compensation for signs of wear of armature
- Service and diagnostic functions on demand at the push of a button
- Configurable setpoint ramp and valve characteristics
- Safety-shut-down-module for safety loops

Robust and proven technique – for sophisticated demands

Digital Electro-Pneumatic Positioner TZID

If you appreciate technology that has already proven its reliability many times, then the Positioner TZID is your first choice. It combines first class electronics with robust and mature mechanics on the pneumatic side.

Clever concept

- Non-contact feedback of position sensor
- Even more flexible fields of applications, as position sensors can be installed remote from the device (up to 10 m cable length)

Safe handling

- Communication via HART-Protocol
- Separate terminal connection area for electric cabling ensures easy and safe connecting and disconnecting, even under the most adverse conditions



Millions of installations over many years

I/P-Signal Converter TEIP11

The TEIP11 has proven its flexibility in installation with its small dimensions and variable mounting positions. The operating principle of the IP Converter offers extremely precise pressure regulation without additional integrated manometers, thus realizing the quickest possible actuation time with the utmost safety.

Small and cost-effective

- Very compact dimensions
- Variable mounting positions
- Cost-effective acquisition and operation
- Unsurpassed actuation speed of 0,3 sec

Adaptable configuration

- Variable input-signal areas
- Control room- and field casing available, made from aluminium, stainless steel or plastic
- Variable options for high and low air output



ABB is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 120,000 people.

www.abb.com/instrumentation

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