

ABB MEASUREMENT & ANALYTICS

Our Comprehensive Portfolio of Innovative Measurement Solutions

Reliable Products for your Process



Expertise in technology For more than 140 years

ABB stands for technological expertise in process automation. As a leading provider in this field, the company can look back on a long history of success with numerous innovations.



With products and systems for instrumentation as well as extensive application know-how, ABB is always at your disposal on site.

In a worldwide network of locations for production, sales and service as well as our own DAkkS-certified calibration facilities. This is how safety, productivity and energy efficiency of your system is optimized.



Industry focus Instruments for diverse applications in chemical, oil & gas, refinery, power generation, low-carbon energy and water industries

01 Chemical
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02 Oil and Gas
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03 Refinery
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04 Power Generation
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05 Water

ABB offers highly accurate, reliable, safety-certified smart measuring devices and asset performance tools enabling safe and efficient operations along the entire industry value chain.

ABB instrumentation solutions deliver continuous performance gathering temperature, pressure, flow data to determine conditions for example in the oil and gas onshore production, petrochemicals, chemicals production, water and water treatment plants, storage tanks, distribution applications such as loading and unloading of oil, gas,

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chemicals, and fiscal custody transfer metering. ABB also cover the requirements of futureoriented segments enabling a greener industrial future by shifting conventional fossil fuel power generation to low carbon sources and fuels such low emission hydrogen, green ammonia, biofuels, and e-fuels.

ABB smart instruments are part of the low carbon intensity technologies such as water electrolysis, carbon capture, utilization, and storage solution among others.









Comprehensive solutions Tailor-made for every industry

The ABB instrumentation portfolio

- Flow measurement
- Pressure measurement
- Temperature measurement
- Level measurement
- Analytical measurement
- Recorders, controllers and indicators
- Electric control actuators
- Positioner
- Device management, fieldbus, wireless
- Service

Future-oriented communication and digital solutions

ABB offers more than classic, analog 4 to 20 mA current signal and binary contact instrumentation. The portfolio also includes products with digital communication in accordance with the various standards. From Hart, WirelessHart, Modbus, PROFIBUS, Ethernet, PROFINET and APL to mobile radio and Cloud applications. For these robust and durable products, solutions are also available that offer both analog signals and digital communication, making them a future-proof investment.



















Your dependable service partner With you where and when you need us



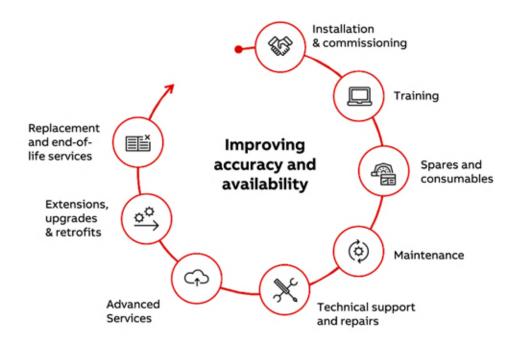


- Factories with repair centers (17)
- Local service support centers (34)

5 reasons for Instrumentation service

- 1. Lifecycle plan
- 2. Certified engineers & repair centers
- 3. Global reach
- 4. Advanced digital services
- 5. 24/7 service support

Improving your accuracy and availability with service



Flow measurement Performance for your process

Characterized by expertise and experience in flow measurement technology, ABB has been setting standards in performance, flexibility and precision for decades with one of the most comprehensive portfolios on the market. The requirements of a wide range of applications are taken into account as early as product development.

01 FEP integral

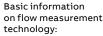
- 02 FEP remote
- O3 FEV, FEF, FEW
- 04 FSM4000
- 05 FER, FEV, FEF
- ____

06 AquaProbe

07 Electromagneticflowmeter in water industry

08 AquaMaster for accurate recording of water network data Electromagnetic flow measurement The best solution for conductive liquids ProcessMaster | FSM4000 | AquaMaster WaterMaster | AquaProbe

- Meter sizes: DN 3 to DN 2400
- Various liner materials and flange materials
- Medium temperature: -40 to 180 °C
- Approvals: ATEX, FM, CSA, CIP/SwIP, OIML / MID, SIL 2
- · Simple commissioning thanks to Easy Set-up
- Extensive diagnosis functions









09 FCB400 integral

10 FCB100

11 FCH400

12 FMT400 with partial measuring section

13 FMT400 with wafer type

14 FMT200 with weld-on adapter

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15 FMT200-ECO2

16 FMT700-P Compact

17 CoriolisMaster in upstream accounting measurements for the oil and gas industry

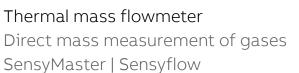
18 CoriolisMaster for flow rate and density measurement of liquids for fire fighting

Coriolis mass flowmeter

High-precision mass flow measurement

of gases and liquids

- Additional measurement of density, temperature and concentration measurement
- Particularly low pressure loss
- Meter sizes: DN 8 to DN 150
- No straight in or outlet sections required
- Innovative diagnosis functions
- Approvals for:
 - Explosion protection
 - Marine and offshore use
 - Custody transfer
 - Hygienic applications
 - Functional safety



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- Mass measurement without additional pressure or temperature compensation
- High-quality and cost-effective solution for precise and dynamic measurements
- Suitable for low flow and low pressure applications
- Lowest pressure loss
- Quick response time



Syriow wit additional compensation ective solution heasurements ow pressure





Flow measurement Performance for your process

01 VortexMaster FSV430

22 SwirlMaster F55430 Measurement of li

— 03 Armored Purgemeter FAM3200

— 04 Glass tube flowmeter FGM1190

— 05 Glass tube Purgemeter FGM6100

— 06 Metal cone flowmeter VA Master FAM540

07 Torbar FPD350

08 OriMaster FPD500

Vortex and swirl flowmeters

Measurement of liquids, gases and steam

VortexMaster I SwirlMaster

- Particularly low installation costs, thanks to the shortest inlet and outlet sections
- Smart filter and noise canceling technologies included
- Temperature compensation via integrated temperature measurement
- With integrated measuring computer for mass calculation and energy balancing



Variable area flowmeters Measurement of liquids, gases and steam I VA Master

- Wide range of variable area flowmeters, from simple indicators without external power supply to versions with analog and digital output as well as HART communication
- Proven reliable flow measurement with consistently high repeatability
- Compact and inexpensive
- Graphical 2-line display, optional

Differential pressure flowmeters Application-specific solutions

- A comprehensive portfolio of compact flowmeters with orifices, averaging pitot tubes and Venturi tubes
- Version for mass flow measurement optionally with integrated temperature sensor
- Extended diagnosis with detection of plugged impulse lines





Flow Computers and RTUs Flexible, smart and accurate

ABB is the expert in low power and high-accuracy control devices for the remote production and custody transfer of oil and gas, offering the X-F.A.C.T.O.R. in flow computing. Easy installation, minimal intervention, and years of experience with real-world applica-tions have helped to build greater efficiency into every function of ABB flow computers, remote controllers & RTUs (remote terminal units).

01 FLOW-X

— 02 µFLO^{G5}

— 03 XFC^{G5}

— 04 Flow-X toucscreen cabinet —

05µFlo^₅ field installation

Flow-X

A powerful and versatile automation platform, especially designed for the custody transfer of liquid and gas

- World-class flow computing with unprecedented, uncompromised accuracy
- Credible accounting data with a certified, purpose-built device
- A single flow computer for the safe and hazardous area
- Investment protection by a modern, future-proof ABB device

µFlo⁶⁵ and XFC Time tested and field proven

- µFLO is known throughout the industry as an extremely accurate and reliable gas flow computer. µFLO^{G5} features the Linux operating system, has persistent memory, and supports linear liquid measurement.
- Backward compatibility is a high priority, and the integrated sensor and electronics are direct replacements for all previous µFLO generations. Single run gas measurement applications are the primary market for µFLO^{G5}, yet the powerful processor and expansion capabilities allow for multiple run gas and liquid measurement as well.

Basic information Flow Computers and RTUs















installation

RMC and XRC

Remote controllers with lowpower, highly reliable microprocessor-based unit with a Linux operating system, persistent memory, and multiple connectivity options, combined with a wide range of measurement, monitoring, and alarm applications for remote oil and gas systems for upstreams, gathering and transmission applications.

 Multiple hardware options available to meet field installation from small control and automation systems untol over 72 measurement applications in addition to the control logics and multiple IO expasion options.

01

XIO

A new standard for control, automation, and measurement solutions, for upstream Oil & Gas and multiple other applications.

- The Wi-Fi bridge, Wi-Fi client mode, and USB options provide optimal device management, locally or at a distance.
- 12 and 24 vdc external power eliminates the need for additional components and reduces installation costs.
- 22 hot pluggable IO modules (additions or replacements) can be added to the XIO without power interruption, making it easy for the technician to see a non-working module, quickly replace it, and immediately confirm that a replacement is working.
- New switch capabilities allow the network to expand beyond the RMC and XIO, with each network segment capable of lengths up to 100 meters.
- 4 Ethernet ports allow for different network configurations, and the 8 serial communication ports give the XIO the most serial capacity on any ABB upstream product.
- Auto-discovery services make setup convenient and easy for XIO devices and ap-plications on the network.
- Ethernet to serial passthrough application integrates seamlessly and effortlessly with the RMC and provides the easy addition of more serial ports in the field with minimal configuration steps.







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Pressure measurement Reliability and safety

The ABB pressure transmitters series offers pressure transmitters for flow, level, differential pressure, absolute pressure and gauge pressure. It meets the highest requirements and is characterized by exceptional safety, reliability, performance and adaptability. The transmitters increase system productivity and help to reduce operating costs.

01 Differential pressure transmitter with barrel housing 266DSH

02 Gauge pressure transmitter PGS300

- 03 Differential pressure transmitter PDS300
- 04 Digital Diaphragm Seal (DDS)

05 Pressure measurement in a refinery with pressure transmitter —

06 Precise pressure measurement up to 600 bar

Pressure transmitter series Intelligent performance

- Replaceable electronics and terminal block for easy maintenance and quick recommissioning
- Base accuracy of 0.05% of the calibrated measuring span up to 0.02%
- Large turn down ratio of up to 100:1
- Comprehensive diaphragm seal selection
- 10-year stability: 0.15 % of URL
- Sophisticated diagnosis function for plugged impulse lines (PILD) to prevent unexpected failures in the control loop
- Optional TTG (Through-The-Glass) button technology for local configuration without opening the housing cover
- TÜV-certified in accordance with IEC 61508 for safety-critical applications (SIL)
- Electronic diaphragm seal with digital communication for faster response times and higher accuracy
- Backlit integral display option for low visibility
 environment
- H-Shield coating against hydrogen permeation
- Digital Access Diagnostics through dynamic QR Code
- Bluetooth technology to enables quick and easy remote operation



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Basic information on pressure measurement





07266CSx, PMS500

08 PGS100, PGF100, PGD100

09 Various diaphragm seal designs

10 Pressure measurement technology in the process industry

11 Pressure transmitter for repeatable measurements

Multivariable transmitter series

Compact mass measurement

- Condition-corrected mass flow measurement, condition-corrected level measurement for gases, vapors, liquids
- High-performance transmitter for measuring differential pressure, absolute pressure, and process temperature in a single device
- Integrated counter function
- Binary output as pulse/frequency output or limit monitor
- Measurement of flow and level using the differential pressure procedure

Pressure transmitter series P-100 The cost-effective alternative

- Base accuracy: up to ± 0.075 %
- Housing made entirely of stainless steel for use in harsh ambient conditions
- Wide range of process connections
- Wide range of approvals and certificates for all requirements
- Configurable via HART communication or local display
- H-Shield diaphragm for hydrogen applications
- Highly abrasion-resistant Diaflex diaphragm for abrasive media

Diaphragm seal series S26

For adaptability in process connections

- Wide range of remote seal types
- Large selection of options, materials and fill fluids
- Fully welded designs
- Tailored for pressure transmitters of series 2600T and P-Series
- Special designed remote seals for individual process solutions







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Temperature measurement Adaptable and efficient

01 NINVA TSP341-N

02 NINVA TSP341-N in gas pressure regulator system

03 NINVA TSP341-N in test bench application

Non-invasive temperature sensor NINVA TSP341-N Innovative measuring solution for piping avoiding contact with the medium

- · Simplified project planning, thanks to universal use
- Low project planning effort and no need for a thermowell calculation
- Quick and easy installation without process intervention
- Measuring accuracy and response time comparable to or better than classic thermowell sensors
- For nominal piping diameters from DN25 to DN 2500
- Suitable for liquids, steam and gases
- Measuring range -40 to 400 °C (higher temperatures in preparation)
- Tailor-made for temperature measurements of abrasive, aggressive and toxic media



Basic information on non-invasive temperature measurement:









The most important measured variable for most industrial processes is temperature. For over 140 years, ABB's temperature measurement has proven itself in numerous applications in all industries. Benefit from this extensive experience.

04 SensyTemp TSP100

05 SensyTemp TSP100

06 SensyTemp TSP300 with built-in indicator

07 SensyTemp TSH200 in different versions

08 SensyTemp TSC400 in different versions

Temperature sensors for numerous applications Adaptable, robust and versatile SensyTemp TSP100, TSP300

Modular design

- Interchangeable measuring inset
- Transmitter in connection head
- All common sensor types available
- Wide range of approvals and areas of application
- Large variety of process connections and thermowell materials

High temperature thermometer Thermocouples for applications up to 1800 °C SensyTemp TSH200

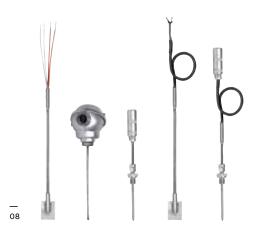
- Modular design system
- Transmitter in connection head
- Long service life
- Various thermowell materials, matched to the measuring medium and temperature

Industrial thermometers

For inserting, screwing in and for surface measurement SensyTemp TSC400

- short response times
- Wide range of applications, thanks to different jacket materials
- Adaptable installation, thanks to various installation and attachment options
- Individual customization with different electrical connections
- Various Ex approvals available







Temperature measurement Adaptable and efficient

01 TTF300

— 02 TTH300

— 03 TTR200

04 SensyTemp TSHY (HY R)

05 TSW200/300/400 thermowells

06 Multi-point temperature sensor, 9-stage

07 Temperature transmitter TTH300 with two inputs

08 Temperature transmitter TTR200 for rail mounting

Temperature transmitter

For sensor head, field and rail mounting TTH, TTF, TTR, series 200 and series 300

- Universal sensor input
- Software and hardware with write protection
- Sensor redundancy and drift detection when connecting two sensors
- Multiple diagnosis options
- Directly configurable on the instrument via buttons



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Thermowells with special designs and materials as well as special temperature measurement systems Unique solutions for specific tasks

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- Special materials for special process requirements
- Thermowells with special designs
- Special product qualifications and tests
- Thermowells, sensors, lines and transmitters from a single source

Basic information on general temperature measurement







WirelessHart instrumentation Simply without cables

The ABB Wireless platform provides users with secure wireless access to important process and production data based on the latest technologies.

08 WirelessHART differential pressure transmitter with barrel housing 266DSH

09 TTF300 WirelessHART

10 TSP300-WirelessHART

11 AWIN GW120

12 Wireless measurement technology using WirelessHART

13 Temperature sensors powered by temperature difference ABB's wireless devices are extremely efficient, thanks to their unique energy-saving electronics The significantly extended battery life increases the reliability of your network. Thus, it is possible to achieve faster update rates and significantly extend the battery replacement intervals.

- Ten-year battery replacement intervals with update rates of 32 seconds under reference conditions
- Standard lithium D cells
- Residual battery life configurable as dynamic burst variable, thanks to DTM
- ABB battery replacement possible in Class I, Div 2/Zone 1 (intrinsically safe)

Wireless instrumentation networks configuration made easy

- Intuitive, standardized operating concept for easy configuration of network access data, device parameters and diagnosis
- ABB WirelessHART devices can be configured with conventional HART Handheld terminals
- ABB supplies preconfigured wireless measurement technology for your network for a quick, reliable and cost-effective deployment.







Level measurement Reliable with proven technology

The level is an important process parameter. ABB offers comprehensive solutions for the most complex level measurement of liquids and solids. With the comprehensive product range, certifications and approvals, the requirements of the most demanding applications can be met, for example in large process containers, high-pressure boilers or grain silos.

01 LLT100

— 02 LM80

03 Laser level transmitter LLT100

04 LM80 Laser, installed in ore refill container

Laser level transmitter

More safety, thanks to non-contact level measurement

- Measuring range up to 190 m for level and 400 m for positioning applications
- Measures every surface at every angle
- Low beam deviation no false echoes, therefore simple commissioning
- Integrated laser pointer for easy alignment
- CE, ATEX, IECEx, FM, CSA (depending on type)
- Extensive range of accessories available for the perfect process connection
- Class 1 measuring laser



Basic information on level measurement technology:











05 MS40 — 06 LMS100

_____ 07 KM26

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- 08 LMT100

09 LMT200 with indicator KM26

10 ABB offers a wide range of level transmitters and indicators

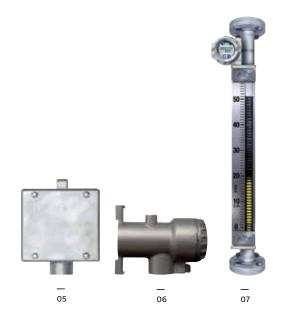
11 Maximum boiler efficiency, thanks to precise level measurement

Magnetic level indicator Intelligent level indicator for measuring liquids

- Magnetic flap indicator in accordance with customer specifications, modular system
- Clearly visible level indicator, with hermetically sealed magnetic flaps
- Extensive selection of materials enables use with corrosive, toxic, flammable or aggressive media
- Robust design for little or no maintenance effort
- Application range for process temperatures from -196 to 538 °C and pressure ranges up to 344 bar
- Non-invasive limit switch contact assemblies for monitoring min. or max. process levels
- Optional: with heat tracing, cooling, extensive insulation material

Magnetostrictive level transmitter High-precision detection of level and interface in liquids

- 4-in-1 technology; a transmitter for level, interface, temperature and void measurement
- Graphic display shows the measurement signals (oscilloscope function)
- Approved for extreme pressures and process temperatures; 165 bar and -196 to 425 °C
- Unique accuracy: 0.01 % on MB or +1.27 mm
- Output: 4 to 20 mA HART 7, FF, PA, Modbus
- Sensor length up to 22 m
- Digital communication; STM, DTM, EDD, FDI and TTG (Touch-Through-Glass)
- Available with a wide range of approvals and certificates
- Adaptable and customizable design to meet all mounting requirements









Level measurement Reliable with proven technology

01 LST200

02 LST300

- 03 LWT300 Cable probe
- 04 LWT300 Coaxial probe

05 LWT300 Rod probe

06 Level measurement in the power plant

installed in a collecting tank

Ultrasonic level measurement LST200 and LST300

For the perfect measurement of bulk solids and liquids

- Highest precision of ± 2 mm or 0.2 % over the entire measuring span
- Measuring range up to 8 or 10 m
- Graphic illustration of the measured values
- LST200 as a cost-effective entry-level model for standard applications
- LST300 also for flow measurement on Venturi flumes and weirs

Guided wave radar level transmitter LWT300 Highly accurate measurements even under demanding process conditions

- Software algorithm, LevelExpert[™] supports commissioning
- Graphic LCD display with waveform indicator provides additional support
- For process conditions up to 204 °C and 207 bar (extension in preparation)
- Available with a wide range of approvals and certificates
- No moving parts, also as a remote sensor, for level and interface measurement
- Output: 4 to 20 mA HART 7, FF, PA, Modbus
- Sensor length up to 60 m
- Accuracy +/- 2 mm or 0.03 % of the MB, resolution 1 mm
- Sampling frequency 5x/sec.









Actuators and positioners Reliable valve automation

Valve automation products play a major role in a wide range of applications. Benefit from ABB's precise, energy-efficient actuators and positioners, which have proven themselves in numerous industries for many years.

01 Linear actuator RSD

02 Rotary actuator RHD

03 EDP300

04 TZIDC

05 Actuator for combustion air control

06 Actuator for feed water control

Basic information on actuators

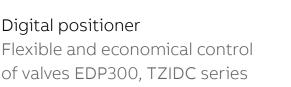


Basic information

on positioners:

Electric control actuators Reliable valve automation Contrac

- Hysteresis-free control for precise, continuous positioning
- Extreme longevity
 Robust design, suited for harsh ambient conditions
- 100 % power-up duration at full nominal torque



- · Universally applicable, for rotary actuators
- Suited for all valves, manufacturer-independent
- High shock and vibration resistance
- Extensive print-based diagnosis functions (EDP300)
- High air output (EDP300)
- Non-contact position sensor (EDP300)
- Remote version available
- Energy-saving, thanks to reduced pressure loss during operation



02







Analytical measurement Measuring accuracy and quality

As an innovative market leader in the field of analytical measurement, ABB offers one of the largest product portfolios with more than 24 measurement parameters. With comprehensive experience in this field, ABB is your supplier for measuring accuracy and quality.

01 Transmitter AWT420 — 02 Transmitter AWT440 — 03 Transmitter

AWT210

Basic information on liquid analysis:

Hybrid liquid analysis transmitter with four-wire technology 2-channel universal transmitter

- Modular design for sensor input and signal output / communication
- Input modules for analog sensors pH, Redox and LF
- Digital EZLink sensors for pH, turbidity, dissolved oxygen and chlorine
- Bluetooth communication via EZLink APP
- Wide range of communication options HART, Ethernet, PROFIBUS DP or Modbus
- Integrated PID controller

Digital liquid analysis transmitter with four-wire technology

4-channel universal transmitter

- Digital EZLink sensor communication for pH, turbidity and dissolved oxygen
- Communication options Ethernet, PROFIBUS
 DP or Modbus

Hybrid liquid analysis transmitter with two-wire technology

- Modular design
- Input modules for analog sensors pH, Redox and LF
- Digital EZLink communication with ABB pH sensors
- Communication options HART, PROFIBUS PA or FF
- ATEX and IECEx intrinsic safety







Analytical measurement Measuring accuracy and quality

— 01 TB4CS

02 TB4043

03 AC200

— 04 TB(x) 5

— 05 ATS430

— 06 APS sensors

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07 Condensate collector in a power plant

08 Monitoring hydrogen purity for more efficient power plant operation Analog measuring cells for conductivity, pH value and Redox potential Better process properties, higher performance

- Precision cells in 2-electrode technology for the elimination of calibration factors
- 4-electrode measuring cells with detection and compensation of sensor contamination by measuring media.
- Insertion, flow, immersion and retractable measuring cells
- Fixed or pluggable cable connections
- Particularly robust and durable pH sensors with wooden diaphragm
- pH sensors with improved accuracy, thanks to fast-response temperature compensation

Digital sensors for pH/Redox as well as turbidity and dissolved oxygen Simple commissioning, safe operation

- Digital EZLink communication with sensor recognition for easy commissioning
- Sensor signals unaffected by electrical interference
- Optimized poisoning protection and permanent impedance diagnosis
- Reference electrode monitoring enables predictive maintenance
- Extremely fast responding dissolved oxygen probe with a service life of up to 2 years
- Turbidity sensor with Formazine-free verification and calibration kit







09 Navigator 600

10 Aztec 600

- 11 Instrumentation solutions for steam, ultrapure water, water and wastewater
- 12 Precise measurement of multiple chemical parameters

Analyzers for silicate and phosphate Automated monitoring

- Cost-effective with one- or two-channel design
- Improved measuring functions, thanks to selectable concentration ranges
- Extended control and monitoring functions using additional option card
 High level of reliability



Analyzers for fluoride, aluminum, iron, manganese, ammonium Better process properties, higher performance

- Low operating costs, thanks to reduced maintenance effort
- Graphic display of trend and diagnosis data
- Self-cleaning measuring chamber
- Automatic 2-point calibration
- Analysis of up to three measuring currents



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Recorders, indicators & controllers Keeping an eye on the process

ABB offers a wide range of process recorders and controllers for the industry. The product spectrum ranges from one- and two-channel controllers and indicators to modern, non-sensitive videographic recorder with outstanding image quality.

01 Controller CM series

02 RVG200

03 SM500F

04 Videographic recorder ScreenMaster in a power plant

05 Videographic recorder SM500F for wastewater monitoring, suited for field, panel or wall mounting Controllers for the process industry The right format for every application ControlMaster

- Adaptable, for simple to demanding requirements
- Adaptable indicator formats, including dualchannel indicator and historical trend data
- Powerful controller with dead time compensation,

adaptive control and dual-channel control

• Adaptable functions: mathematical functions, logical equations, counters and delay timers

Videographic recorder Data securely in view ScreenMaster

- Totalizing recorded values
- Advanced calculation and logic functions
- Process alarms via relay outputs
- Data transmission via Ethernet
- Web server access to real-time data
- Offline data analysis with PC software
- Suited for harsh ambient conditions in accordance with IP66 (NEMA 4X)









Digital solutions Comprehensive and adaptable

O1 My Measurement Assistant O2 SRV500

03 SmartMaster

My Measurement Assistant Smarter, personalized and

easier self service

My Measurement Assistant is an advanced web application for measurement device support that:

- Saves you time
- Increases your knowledge and expertise
- Helps you when and where you need it the most
- · Enables you to be more sustainable
- · Find spare parts, and request quote

Measuring device verification ABB Ability[™] Verfication

for measuring devices Simple and versatile

- Standardized software for the verification of a variety of measuring devices
- Device check when installed
- Menu-guided and automated device maintenance
- Wide range of communication options
- Intuitive menu navigation
- Cyber security tested in accordance with ABB standard
- Free basic version
- Standard version with maintenance certificate, history as well as import and export functions
- Premium (IDM) highly accurate traceable test of the inputs and outputs as well as the transmitter and sensor
- Verification of third-party devices from standard

Verification tool and condition monitoring platform ABB Ability[™] SmartMaster Innovative and comprehensive

- Remote verification of accuracy and diagnosis Status of measuring devices
- Numerous communication pillars (DCS FIM and mobile radio)
- Statement on accuracy
- Cyclical, automatic verification
- Compatible with numerous ABB flow, pressure, temperature and level meters and positioners









Device management Configuration of existing devices, regardless of technology and protocol

01 LCD indicator

02 Field Information Manager (FIM)

03 Smart Device Manager (SDM)

ABB's uniform product spanning

operating concept

Uniquely simple device parameterization

- Guided commissioning Easy-Setup
- Standardized menu structure
- Dynamic keyboard layout
- Plain text error messages
- Diagnosis messages in accordance with Namur NE 107

Configuration software Field Information Manager (FIM)

- Easy to install
- Automatic device scan
- intuitive user interface
- FDI and EDD support
- Download of device packages within the software (automatic import for ABB products)
- PROFIBUS DP/PA and HART communication interfaces

FIM is a manufacturer-independent device management tool that uses the latest and most powerful technology standard.

Latest generation handheld terminal configurator

Smart Device Manager (SDM)

- Simple configuration
- Universally applicable for all field devices that use FDI technology
- Diagnosis and verification tool for field devices
- Optionally also for use in explosion protection zone 1/DIV 1

The Smart Device Manager (SDM) is a universally applicable portable configurator based on a robust industrial tablet with a 10.1" display. With the help of FDI technology, the Smart Device Manager (SDM) is used for simple configuration, commissioning, diagnosis and maintenance of field devices. With up to 14 hours of battery life, IP rating IP65 and drop-tested for a drop height of 1.2 m, it is the ideal tool for service technicians in the field. With the Smart Device Manager (SDM), field devices provided by different manufacturers can be configured. Special device drivers can easily be installed later. Complete maintenance and diagnosis documentation is therefore easy to manage.







— 03

Measurement made easy Complete service for the entire lifecycle

Solutions and support from experts

Service for the entire product lifecycle ABB offers a wide range of services for its measurement technology solutions. It covers the following areas: Flow, pressure, level and temperature measurement, force measurement tech-

nology, valve automation, liquid and gas analysis.

All services at a glance

- Engineering, planning and consulting
- Training
- Commissioning
- Field service
- Maintenance including calibration
- Repair and spare parts service
- Upgrades and retrofits
- End-of-life service
- Advanced service
- Service agreements / contracts

My Measurement Assistant

ABB support with easy access around the clock

The WEB app for practical support in case of questions about ABB measuring devices

- Checklists for commissioning and troubleshooting
- Intuitive tutorials and step-by-step videos
- Identification of error codes with remedy description
- Spare parts catalog by product
- Easy contact with the ABB service partner – worldwide

Solutions and support anytime, anywhere

Optimizing the productivity and performance of products and personnel used in your plant is the top priority for all our services. Our experts are always at your disposal to solve any problem. ABB's Visual Remote Service solutions use augmented reality with the aid of a smartphone. This means the ABB expert is virtually right there at the measuring point, in real-time, supporting you with troubleshooting or commissioning.

Direct connection to My Measurement Assistant:







ABB Measurement and Analytics

You can find your ABB contact person at: www.abb.com/contacts

Additional product information is available at: www.abb.com/measurement

PB/INSTRUMENTS/WITH_ANALYTICAL-EN Rev. E 05.2024

