
ATTA SERIES

FIELD INSTRUMENTS



altus

PRECISION AND RELIABILITY FOR CONTROL AND INSTRUMENTATION

With a wide variety of equipment for monitoring and positioning field instruments, Atta Series has essential products for your instrumentation demands.

Just like ants, that use the vibrations of the soil to get oriented through the steppes and savannahs, your business also needs devices with a high level of precision to monitor performance and adjust critical points in your production processes.

Altus new series of equipment includes pressure transmitters, temperature transmitters and valve positioners, in addition to specific software and accessories for the demands of field instrumentation.

The products feature high accuracy, reliability and ruggedness capable of increasing the productivity and efficiency of your processes, providing more security to the operation and reducing your production costs. In addition, with the use of tools based on EDDL and FDT/DTM it is possible to configure, calibrate, monitor and verify diagnostics of all the assets of your plant.

*Find out more about **Atta Series** products and discover the ideal solution to increase the accuracy and control level of your business.*



PRESSURE TRANSMITTERS

APT10

HART® pressure transmitter

The APT10 equipment is a completely digital high-performance capacitive pressure transmitter designed for differential, manometric and absolute pressure measurements, with models for flanged level, remote seal, sanitary and flow measurement applications. Its configuration uses the HART 7 communication protocol, already established as the most used worldwide in industrial automation for configuration, calibration, monitoring and diagnostics.

Prioritizing high performance and ruggedness, the APT10 transmitter has been designed with the latest technologies of electronic components and high-quality materials, ensuring long-term reliability for systems of any scale.

MAIN FEATURES

- 2-wire transmitter with HART 7 communication protocol
- 5-digit LCD, Rotatable, Multifunctional with bargraph and local adjustment via magnetic key
- 7 pressure ranges: 765 mmH₂O at 210 kgf / cm²
- 2 accuracy classes of time and 50 ms measurement response
- Totalizing with Persistence
- Internal Transient Protector
- Microprocessed sensors with Onboard pressure and temperature compensation
- Remote sensor for areas with high vibratio and high temperatures
- 200:1 Rangeability

APT11

HART® pressure transmitter (direct mounting)

The APT11 is a completely digital high performance piezoresistive silicon pressure transmitter designed for gauge and absolute pressure measurements, with models for flanged, remote seal and sanitary applications. The equipment uses the HART 7 communication protocol, already established as the most used for configuration, calibration, monitoring and diagnostics in industrial automation applications.

Prioritizing high performance and ruggedness, the APT11 transmitter was designed with the latest technologies of electronic components and high-quality materials, ensuring long-term reliability for systems of any scale.

MAIN FEATURES

- 2-wire transmitter with HART 7 communication protocol
- 5-digit LCD, Rotatable, Multifunctional with bargraph and local adjustment via magnetic key
- 6 Pressure Ranges: 6 kPa at 40 MPa
- 2 accuracy classes of time and 50 ms measurement response
- Totalization with Persistence
- Internal Transient Protector
- Microprocessed sensors with Onboard pressure and temperature compensation
- 200:1 Rangeability

ADL10

Pressure, density, level and flow transmitter with HART® electronic seal

The ADL10 is a pressure transmitter with electronic seal developed for measurements of differential pressure, level, flow and density with HART technology. The equipment has two smart and micro processed capacitive sensors, connected by an electronic seal that allows safe operation and excellent performance in the field, with integrated pressure and temperature compensations, providing high performance and stability of measurements.

Prioritizing high performance and ruggedness, the ADL10 transmitter was designed with the latest technologies of electronic components and high-quality materials, ensuring long-term reliability for systems of any scale.

MAIN FEATURES

- 2-wire transmitter with HART 7 communication protocol
- 5-digit LCD, Rotatable, Multifunctional with bargraph and local adjustment via magnetic key
- 5 Pressure Ranges: 765 mmH₂O at 21 kgf / cm²
- ± 0.075% accuracy and 100 ms measurement response time
- Totalization with Persistence
- Internal Transient Protector
- Microprocessed sensors with Onboard pressure and temperature compensation



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TEMPERATURE TRANSMITTERS



ATT10-F

HART® temperature transmitter (field)

The ATT10-F is a temperature transmitter designed for installation in the field, directly on the sensor or with Ø 2 "tube support. It serves several types of sensors, such as thermocouples and RTDs, as well as resistance, millivoltage and 4 to 20 mA input signals. The equipment also features a reading circuit with a 24-bit AD converter and Callendar-Van Dusen.

Through a HART configurator or tools based on Android, EDDL or FDT / DTM it is possible to configure the type of sensor, measurement scales, work units and calibration, in addition to monitoring the measurement variables and checking the status of the equipment. In addition, it is possible to configure the ATT10-F via local adjustment using a magnetic key.

MAIN FEATURES

- 2-wire transmitter with HART 7 communication protocol
- Easy to Use 5 Digit Rotatable, Multifunctional LCD with bar graph
- RTD, TC, Ohm and mV sensors reading
- Isolated 4 to 20 mA signal repeater
- Dual sensor for backup, maximum, minimum and average temperature
- 2, 3 or 4 wire measurement

ATT10-H

HART® temperature transmitter (head)

The ATT10-H is a temperature transmitter designed for installation in a B-type DIN head. It serves several types of sensors, such as thermocouples and RTDs, in addition to resistance and millivoltage signals. The equipment also features a reading circuit with a 24-bit AD converter and Callendar-Van Dusen.

Through a HART configurator or tools based on Android, EDDL or FDT / DTM it is possible to configure the type of sensor, measurement scales, work units and calibration, in addition to monitoring the measurement variables and checking the status of the equipment.

MAIN FEATURES

- 2-wire transmitter with HART 7 communication protocol
- RTD, TC, Ohm and mV sensors reading
- 2, 3 or 4 wire measurement
- Room temperature compensation
- Direct mounting to the sensor (DIN 43729 B)
- Power supply without polarity from 12 to 45 Vdc

ATT10-M E ATT10-P

HART® multipoint transmitter and HART® temperature transmitter (panel)

The ATT10-M and ATT10-P are temperature transmitters designed for installation on a DIN rail panel or in the field. They serve several types of sensors, such as thermocouples and RTDs, in addition to resistance and millivoltage signals. The ATT10-P can still receive a 4 to 20 mA signal and retransmit it, therefore, it is also an isolated repeater. The equipment also features a reading circuit with a 24-bit AD converter and Callendar-Van Dusen.

Easy to install and start up, the ATT10-M transmitter offers ambient temperature measurement, sensor average and backup function, as well as several alerts for measurement limits and sensor status. The equipment uses the HART 7 communication protocol, already established as the most used for configuration, calibration, monitoring and diagnostics in industrial automation applications.

Through a HART configurator or tools based on Android, EDDL or FDT / DTM it is possible to configure the ATT10-P

with the type of sensor, measurement scales, work units and calibration, in addition to monitoring the measurement variables and checking the status equipment.

MAIN FEATURES

- Multipoint transmitter with 6 temperature channels on 3 wires 6 4-20 mA outputs (ATT10-M)
- 2-wire transmitter with HART 7 communication protocol (ATT10-P)
- RTD, TC, Ohm and mV sensors reading
- Measurement of 2 or 3 wire sensors
- Average and backup functions
- Easy to Use 5 Digit Rotatable, Multifunctional LCD with bar graph (ATT10-M)



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POSITIONERS



ATP10

HART® Position Transmitter

The ATP10 position transmitter is designed to monitor linear or rotary displacement systems, such as actuators for valves. Its main function is to calculate the correct positioning of the installed system according to the configurations and calibrations performed by the user, exporting this measurement by means of digital communication and by a 4 to 20 mA analog signal.

The product uses the HART 7 communication protocol, already established as the most used worldwide in industrial automation for configuration, calibration, monitoring and diagnostics, and can be configured by the user using a HART configurator or tools based on EDDL or FDT / DTM.

MAIN FEATURES

- HART 7 communication protocol
- Working range configuration
- Operation limit alarms
- Magnetic sensor without mechanical contact
- Easy to Use 5 Digit Rotatable, Multifunctional LCD with bar graph
- Position histogram

AVP10

HART® valve positioner

The AVP10 positioner was designed to work with linear or rotary valve actuators, providing precision and control with high availability and reliability. The equipment is of easy to installation and commissioning, suitable for various types of valves, regardless of the action (single or double) and size.

Through a HART configurator or tools based on Android, EDDL or FDT/DTM it is possible to configure the type of sensor, measurement scales, work units and calibration, in addition to monitoring the measurement variables and checking the status of the equipment. The feature allows the configuration of positioner parameters, as well as the execution of position auto calibration, PID auto tuning, verification of calibrations, diagnostics and monitoring.

MAIN FEATURES

- HART 7 communication protocol
- Electronic coil technology (without low insulation)
- Non-contact position sensor (hall sensor)
- Suitable for most Valves/Actuators
- Remote position sensor (applications with high vibration and high temperature)
- Auto position calibration and PID self-tuning
- Actuator stroke: Linear 3 to 100 mm and rotary 30 to 120 ° Advanced diagnostics

COMMUNICATION INTERFACES AND SOFTWARE



ACI10-BH

HART® Bluetooth communication interface

The ACI10-B is a HART communication interface for use with devices that have Bluetooth technology. It allows connection of any HART equipment based on the FSK frequency modulation standard (frequency-shift keying) with an Android device (cell phone/tablet) or Windows tools, via Bluetooth communication.

The interface can operate in a network or in stand-alone mode feeding the equipment either by current or voltage, an extremely useful feature in laboratory work or in initial configuration conditions, when the network is not yet established.

MAIN FEATURES

- Bluetooth communication with Android and Windows devices
- VMT-HART application for calibration, configuration and monitoring of HART equipment
- Certified HART modem
- Supplies power to the equipment (voltage or current)
- Compatible with EDDL and FDT/DTM-based configurators and HART tools
- Communication and battery status indicator LEDs
- 250 Ohm embedded resistor

ACI10-U

HART® USB communication interface

The ACI10-U communication interface provides the connection of any HART equipment based on the FSK frequency modulation standard (frequency-shift keying) with a personal computer, via USB port. Compatible with all HART equipment on the market, it allows connection to HART networks, simplifying commissioning, operation, maintenance and calibration processes, diagnostics and data acquisition of any HART instrument.

The interface can operate in a network or in stand-alone mode supplying the equipment either by current or voltage, an extremely useful feature in laboratory work or in initial configuration conditions, when the network is not yet established.

MAIN FEATURES

- Standard USB type-A connection
- FSK HART communication
- Certified HART modem
- Supplies power to the equipment (voltage or current)
- No external power supply required
- Compatible with EDDL and FDT/DTM-based configurators and HART tools
- Integrated 250 Ohm resistor

COMMUNICATION SOFTWARE

Altus offers a wide range of software and applications for communication via HART protocols that simplify the stages of commissioning, startup, operation and maintenance of projects. Developed based on EDDL and FDT/DTM technologies, the applications ensure easy integration

between the equipment and deliver uncomplicated navigation. Mobility is also a differential of the tools, which can be installed on tablets and smartphones with Bluetooth and Android and Windows operating system.

In addition, MasterTool IEC XE, programming software for PLCs manufactured by Altus, is fully compatible with PACTware, a tool for integration with instruments and asset management.



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HOW CAN WE HELP YOU?

For over three decades in the automation market, we have trained specialists and high technology to help you with new industry challenges, whatever your business are.



TOTAL DEDICATION TO YOUR BUSINESS

Personalized service from the beginning. Our partners and professional teams will be by your side during all stages of project planning, execution and analysis.



KNOWLEDGE AND EXPERIENCE

With a multidisciplinary team of specialists, we have the knowledge and experience to transform the reality of your business.



COLLABORATIVE CREATION

You know your business, us, the technology. Together we can create innovative solutions that can drive the performance of your machines and processes to their maximum.



YOUR BUSINESS, YOUR PROGRAM!

We allow our customers to fully modify the developed applications, both for maintenance and future projects.



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