



There is always a solution ... for demanding measuring tasks

ARMANO Messtechnik GmbH

www.armano-messtechnik.com

» Mechanical Pressure Measurement



Pressure ranges Nominal case sizes

Case

Wetted parts **Process connections**

Accuracy classes

Special versions

0 - 2.5 mbar to 0 - 5000 bar

40, 50, 63, 80, 100, 125, 160, 250, 96x96, 144x144 mm, 4½" stainless steel, polyamide, brass (nostalgic instruments) brass/bronze, stainless steel, Monel, PTFE and others

thread or flange connection

according to EN 2.5, 1.6, 1.0, 0.6, 0.25

according to ASME Grade 1A, 2A, 3A, GOST

high-temperature resistant up to +300 °C, up to 100-fold overrange protected, high-pressure instruments according to DIN 16 001, for ambient temperatures down to -60 °C,

with customised dial and others

1000, 2000, 3000, 4000, 6000 Model overviews

Pressure gauges are indicating pressure measuring instruments for gauge pressure, absolute pressure and differential pressure. For the ideal solution of various applications, we differentiate between the following product groups: Bourdon tube pressure gauges, test gauges, diaphragm pressure gauges (horizontal, vertical), duplex and differential pressure gauges and capsule gauges for low pressure.







» Chemical Seal Mounting



Wetted parts materials: stainless steel, Hastelloy, Monel, tantalum,

duplex steel, Inconel and others

coatings: PTFE, PTFE for Ex-applications,

PTC, PFA, gold, Halar® and others

Process connections male threads, female threads, flange connections,

diaphragm placed inside, diaphragm flush welded, hygienic and aseptic connections for food/bio/pharmaceutical industries, also with 3-A and EHEDG certification

Model overview 7000

Diaphragm seals extend the application range of pressure gauges and pressure transmitters. The diaphragm separates the medium from the measuring unit. A suitable filling fluid is responsible for the pressure transmission.

We gladly fit your provided instruments (transmitters, pressure switches, etc.) to our chemical seals. In coordination with you, we can find ideal process-sided solutions with our chemical seals.







» Electronic Pressure Measurement



Pressure ranges 0 - 25 mbar to 0 - 2500 bar

Accuracy from 0.05 to 1 %

-40 °C to +80 °C, temperature-compensated

Output signals 4...20 mA, 0...20 mA, 0...10 V,

4...20 mA with HART® communication or RS 485, IO-Link, semiconductor switch directly within the transmitter (DIGPTM)

Limit switch direct (electromechanical)

indirect (contact-free)

Model overview 9.1000

Limit switch contact assemblies for pressure measuring instruments close or open electric or pneumatic circuits on a pressure-dependent basis. Pressure measuring instruments with analogue or digital output signal are suitable for the measurement of absolute pressures, differential pressures as well as positive and negative gauge pressures of liquid or gaseous media. They stand out due to a high measuring and switching accuracy of up to 0.05 % of the full scale value. Typical fields of application include the food and pharmaceutical industries, the oil and gas industry, chemistry and petrochemistry, the paper industry as well as increasingly the energy technology (SF $_6$). Specifically approved versions of instruments with electrical measuring and switching outputs are also suitable for the application in explosive atmospheres.







» Calibration Technology





Pressure ranges from vacuum up to 5000 bar gauge pressure and absolute

pressure, differential pressure ±30 mbar to ±300 mbar,

digital barometers

Measuring principle mechanical primary standards, fully digital transfer standards,

fully automatic pressure controllers/calibrators,

portable hand-held measuring instruments

Services development and construction of laboratory and calibration work

stations, development of customer-specific software solutions

Calibration service realisation of numerous national and international calibration

standards

Model overview 10000

The instruments of barotec® Kalibriertechnik (barotec® Calibration Technology) were developed for customers whose demands for accuracy, flexibility and speed are as high as the standards in our own production. We thoroughly focused on applying proven and industrial mature technology, which meets all requirements from laboratory calibration to calibration in the series production.

for Pressure and Temperature in all Industries







» Mechanical Temperature Measurement



Accuracy class 1

Nominal case sizes 63, 80, 100, 160, 125, 250 mm, 5"

Case stainless steel

Stem stainless steel, also with 3-A and EHEDG certification

Stem connections rigid, every angle and with capillary line

Model overview 8000

Our mechanical temperature measuring instruments comprise bimetal thermometers, gas-actuated thermometers as well as machine glass thermometers. They are suitable for temperature measurements in the range of -100 °C up to +650 °C.

Gas-actuated thermometers are optionally available with limit switch contact assembly. For the ideal measuring point design, we offer customer-specific solutions with stem models and stem connections for almost all applications.

for Pressure and Temperature in all Industries







» Electrical Temperature Measurement



Measuring principles resistance thermometers and thermocouples

Temperature ranges from -200 up to +1600 °C

Versions for measuring liquid and gaseous media,

surfaces and ambient temperatures,

for the application in explosion protected areas only display devices, 4...20 mA, 0...10 V, HART® or

PROFIBUS® PA/FOUNDATION™ Fieldbus

Special versions special fabrications, such as multipoint thermocouples

for the collection of temperature profiles

Model overview 8000E

Our electrical temperature measuring instruments comprise resistance thermometers, thermocouples and digital thermometers for almost all applications and industries. From very large to very small, from high- to low-temperature — no matter which requirements you have for your application, together we will find the ideal solution.







» Thermowells



Materials stainless steel, creep-resistant steel grades, duplex and

super duplex steels, heat-resistant steel grades, nickel-base alloys (Monel, Hastelloy, etc.), titanium, tantalum and others

Mounting options screw, weld and flange connection,

hygienic and aseptic connections for food/bio/pharma-

ceutical industries

Specialties surface electropolished, roughness Ra < 0.4 µm,

also with 3-A and EHEDG certification,

solid drilled thermowells with a total length up to 1.4 m

Model overview 8000

Thermometer thermowells are important components of temperature measuring points. They protect the actual temperature sensors from aggressive media as well as high pressures and flow velocities and they seal the process towards the atmosphere. Only then, temperature measurements in highly stressed processes or in aggressive or toxic media are possible. Since the fields of application are almost unlimited, we offer thermowells in a wide range of construction types and materials. In addition to our extensive standard range, we provide almost any customer-specific version or coating.







» Accessories



» Certificates and Approvals

























A high quality standard is a matter of course for us! Not only our company is certified according to the highest quality standards, our products are manufactured according to varied regulations and approved for the most part as well.









Special Eustomer Requests Are Challenges We Readily Meet . . .



Our Demand

Customer-specific solutions for demanding measuring tasks

Our Basis

Customer satisfaction
Development of innovative products
Germany as production location

Continuous growth



The ARMANO Messtechnik GmbH is an internationally operating, medium-sized, innovative company with two manufacturing plants in Germany.

Our product range comprises high-quality pressure measuring instruments, temperature measuring instruments as well as calibration devices for pressure measurement, for whose quality we enjoy an excellent reputation worldwide for more than 100 years. We are proud to state that our customers appreciate our quality, our expertise as well as our flexibility and reliability.

www.armano-messtechnik.com

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