High Quality Pressure Gauges

Armaturenbau is a company established in 1903 with the concept of manufacturing pressure gauges of the most durable, rugged and reliable type, working with the latest machinery and laboratory grade equipment available on the market today.
ERIKS supply program, from pressure gauges to chemical seals, pressure transmitters, limit-switch contact assemblies, pressure gauge test equipment, accessories such as pressure gauge valves or cocks and last but not least our comprehensive offer of gas-actuated and bimetal thermo meters. Besides for our DIN/EN standard gauges, we are well known for finding solutions for our customers also in difficult pressure issues. Innumerable special versions have been developed for our customer's individual requirements. We meet all pressure gauge and thermometer applications. We take pride in having the highest standards of accuracy, performance and quality, and to be known as an organization that you can depend and rely on to be there when you need us.

Hygienic Design Bourdon Tube Pressure Gauges Weld connection piece for Diaphragm Seal

Case and Bayonet Ring Stainless Steel
Standard (RCh 100-3v) or Liquid Filled (RChG 100-3v)

Application
Hygienic design pressure gauges with Bourdon tube were developed for direct welding to a diaphragm seal for hygienic/aseptic applications, where high process and/or cleaning temperatures require an outstanding high-grade sealing of the measuring system (CIP/SIP procedures in food industry, biotechnics, and pharmacy).
In data sheet 7303 you will find the selection of diaphragm seals in hygienic design that are to be welded to these Bourdon tube pressure gauges.

Nominal Case Size (NCS): 100 (4")

Accuracy Class (EN 837-1): 10

Pressure Ranges:
0-0.6 up to 0-40 bar and 0-10 psi up to 0- 600 psi
Also corresponding vacuum and vacuum/pressure compound ranges.

Endurance Limitations:
Steady pressure: full scale value
Cyclic pressure: 90% of full scale value
Overpressure: 130 % of full scale value

Protection Type (EN 60 529 / IEC 529):
Model RCh 100-3v = IP 54 / Model RChG 100 3v = IP 65

STANDARD CONFIGURATION
Process Connection:
Bottom weld connection piece stainless steel 316 Ti (1 4571) welded to the case; for welding to diaphragm seal according to tri-clamp, varivent or DIN 11851

Bourdon Tube: 316 Ti (1 4571), C-form, argon arc welded

Movement: Stainless steel

Dial: Aluminum alloy, black figures, white background

Pointer: Aluminum, black

Case and Ring: 304 stainless steel (1.4301)

Window: Laminated safety glass

Case Filling: Model RChG 100-3v only: Glycerine

Safety Features:
RCh 100-3v: Blow-out plug
RChG 100-3v: Blow-out plug with tum fastener at the top of the case.

Flow-Through-Pressure Gauge PsP 50-3 FT

Pressure Gauges for Ultra High Purity applications

Application:
For fluid and gaseous media with highest purity requirements

Case Diameter: 50 mm

Accuracy: Class 1,6 (EN 837-3)

Ranges: -1/3 bar and -1/9 bar,
Other ranges on request.

Temperature Limitation: Ambient temperature: - 20°C up to +50°C ; Medium temperature: max. +50°C

Wetted Parts:
Bordan Tube: Inconel 718
Case: 1.4435 (316L), electropolished

Surface: Ra < 0,25 µm

Lens: Plexiglass

Connection: Inlet: 1/4" VCR-female / Outlet: 1/4" VCR- male,

High Quality
Pressure and temperature gauges

75 Years Schmierer:
Measurable Precision !
High quality pressure and temperature gauges with state-of-the-art production and testing equipment.

Flexible ways of production in combination with modern CNC-controlled machinery, assembling and calibration equipment gain are very high valued within our customers. ERIKS supply the Schmierer instruments to industries like: chemical, pharmaceutical, foodstuff, paper, machinery and many others.

Our range of products covers all kinds of Bourdon tube-, Diaphragm-, Test- and Differential Pressure Gauges. These gauges are available in all regular sizes and can be combined with numerous accessoires. We deliver according to DIN/EN- Standard or many other standards. The various types of connections of pressure gauges can be realised fast and cost efficient with our flexible supplier. Futhermore, we can deliver our gauges with nearly all kinds of contact switches; slow-action, snap-action or inductive system. We do make repairs of all kinds of pressure gauges from all manufacturer, if requested.

ERIKS deliver, assemble, fill and calibrate a wide range of diaphragm/ chemical seals according to actual norms or even custom-made.
All these seals can be combined with pressure gauges or pressure switches/transmitters (supplied from customer). The seals can be mounted with or without capillary line or cooling element for high temperature applications – everything is possible. We have more than 10 different filling fluids in our standard selection, some of these with FDA-approval for foodstuff or pharmaceutical applications. The standard material of our seals is 1.4571/ St.Steel 316 Ti; we may also supply 1.4435, 1.4539, Tantalum, Hastelloy C, PTFE, Titanium, Gold, Nickel, Silver or others. Filling and Calibration will be made with modern and very effective filling stations with high range vaccum pumps and first-class calibration instruments.

ERIKS deliver also a wide range of Bimetallic- and Gas-Filled Pointer Thermometers, these can be partly equipped with contact switches or in case of gas-filled thermometers with remote indication and capillary line. Parallel to the gauges, we deliver the suitable thermowells to be welded or screwed and flanged connection; also available in special materials.

Technical Descriptions

PKU 100, Flange DN25 PN40, PTFE
PKU 100 Diaphragm Pressure Gauge

	Case diameter: 100 mm
	Case: st.steel 304
	Bayonet lock ring: st.steel 304
	Scale white with black lettering
	Micrometer Pointer
	Safety glass
	Accuracy: 1,6% f.s.d.
	Diaphragm made of Duratherm 600, alternative with PTFE-coating
V 158	Flange made of st.steel 316Ti, DN25 PN40 acc. EN 1092
	Outer diameter of flange: 115 mm
	Alternative flange with PTFE-lining

Technical Descriptions (cont'd)

Schmierer Pressure and Temperature Gauges

RU 160 Bourdon tube Pressure Gauge

Case diameter: 160 mm
Case: st.steel 304
Bayonet lock ring: st.steel 304
Scale white with black lettering
Micrometer Pointer
Safety glass
Accuracy: 1,0% f.s.d.
Bourdon tube st.steel 1.4571/316 Ti

V 119	Junction box, right side
V 126	Bayonet lock ring for contacts
V 136	Contact device acc. to customer specs.
V 120	Diaphragm Seal made of st.steel 1.4571 / 316 Ti Diameter 100 mm, Membrane made of st.steel 1.4571/ 316 Ti
V 200-2	System filling: Silicone Oil M 20
V 158	Flange made of st.steel 316Ti, DN25 PN40 acc. EN 1092 Outer diameter of flange: 115 mm

PKU 160 Diaphragm Pressure Gauge

Case diameter: 160 mm
Case: st.steel 304
Bayonet lock ring: st.steel 304
Scale white with black lettering
Micrometer Pointer
Safety glass
Accuracy: 1,6% f.s.d.
Diaphragm made of Duratherm 600

V 119	Junction box, right side
V 126	Bayonet lock ring for contacts
V 136	Contact device acc. to customer specs.
V 150 – V158	Flange made of st.steel 316Ti, DN50 PN40 acc. EN 1092 Outer diam. of flange: 115 mm or 165 mm

flow-captor: for Sanitary Applications

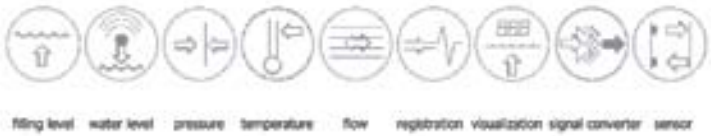
weber

Metering Flow Switch with Analog Display

The flow-captor is a compact, rugged and reliable flow sensor with proven reliability and long-term stability. Operating according to a calorimetric principle the flow-captor offers a level of performance, especially at low flow rates, not comparable with instruments employing different operating principles. The flow-captor is available in a range of many different models.

Advantages:

- For liquid media
- Insertion and inline version
- Separate adjustment of range and set point
- Analog display of flow rate and set point
- High accuracy even under low flow conditions
- Usable for high temperatures
- High pressure resistance
- Inline version for small diameters



ACS contsys®

ACS
Measuring Techniques and Automation

ACS-Control-System is a company with nearly two decades of experience in measurement technique. This experience is the reliable basis for the development and production of filling level, pressure, temperature and flow sensors. The products meets the various requirements and are used under extreme conditions.

Besides the extensive know how in the fields development and construction we have a long-standing experience in the realizing of special customer requests and the creation of solution concepts in industrial automation.
We optimize continuously our products that are used in the fields measuring technique and control engineering.
ACS-Control-System guarantees the customers fast supplying and highest quality.
Due to our experience we are convinced also to fulfill your individual requirements.

Hydrostatic filling level transmitter **Hydrocont D50**, humidity resistant

Filling level

The filling level measuring technique in liquids and solids are one of the core competences. Due to the variety of devices and the thought-out module system of the devices it is possible to fulfill nearly all measuring tasks in all branches

- Hydrostatic filling level measuring
- Ultrasonic filling level measuring
- Radar measuring

Water level

In times of climatic changes autarchic operating water level measuring systems with high water and low water alarm functions gets more and more importance.

- Water level sensor with battery operation
- Data remote transmission
- Alarming with GSM module

Conductive rod probe SLK, with food process connection and weld-in-sleeve

Pressure

No matter if relative, absolute or difference pressure, in the fields hydraulics, mechanical engineering, food industry, pharmacy or only for compressed air, ERIKS offers due to it's variety of devices and the extensive Know-how in this field always the right system.

- Standard pressure sensors
  Pressure sensors with analogue and switching output, in 2-wire or 3-wire-technology, from strain gauge measuring element up to the capacitive ceramic measuring sensor, with or without display, from synthetic housing with plug up to a housing in high-grade steel with terminal box and with all common process connections.

Measuring Techniques and Automation

Temperature

Well equipped for all measuring tasks with the temperature sensors and signal converters.

- Standard screw-in resistance thermometer
- Digital temperature sensors
- Ex resistance thermometer
- Hygienic and pharmaceutical applications
  Screw-in sensors with hygienic process connections, touching type sensors with front flush weld-in sleeves and highly precise tube touching type sensors. Validateability, material check, self-supervision, highest precision
- Chemical resistant sensor
- Stab-in and dive-in resistance thermometer
  Pt100 sensors in various styles with fix connected cable.
- Temperature signal converter

Flow meter
Flowcont L

Flow

Measure flow – uncomplicated and easy

- Flange versions, Flowcont F
- Hygienic versions, Flowcont L
  Magnetic-inductive flow meter especially for the food industry, with hygienic process connections and high-grade steel housing.
- Flow measurement for partially filled pipes, Flowcont TGF
- Mass flow meter
- Floating object flow meter

Visualization

The interface man to machine is of especial importance for ERIKS. Due to this we offer a variety of display, evaluation and registration devices, where the attention is focused to good readability, easy operation and highest reliability.

- Display devices
  From the simple 3 1⁄2 - digit panel device to devices with bar graph display and up to multifunctional display and evaluation devices with multiple channels and limit values.
- Multifunctional, calculation and differentiating devices
- Signal converter
  A good isolation amplifier is perceptible by this that it is not perceptible. By using isolation amplifier and signal converter expensive control systems can be galvanically safe isolated to the field layer and by this protected against ground loops, over voltages etc. or various measuring signals can be also converted into standardized signals.

Flow meter
Flowcont M