WATER LEVEL / WELL PROBE TANK CONTENTS MEASURING PROBE



GBS 01

Product-ID: 603059 Water level / well probe

Suitable for permanent level measuring in tanks, rivers, lakes, drinking-water wells, drilling holes, waste water plants.

GBS 02

Product-ID: 603146

Tank contents measuring probe for difficult measuring conditions

For measuring the level of fuel and other aggressive media. The sensor is highly precise, insensitive to lateral flow and offers optionally lightning protection and other output signals (e.g. 0-10 V). For measuring of gasoline please order ex-design

Piezoresistive pressure sensor with temperature compensation. Welded, non-corrosive design with integral and additionally sealed water-proof connecting cable. The pressure compensation is done via a cable-integrated air path to the atmosphere. A special feature is the lateral flow resistance, which prevents media ingress

Specifications:

Measuring ranges: 0.1 bar (100 mbar) ... 10 bar = 1 ... 100 m water column Available ranges: 0.1, 0.25, 0.4, 0.6, 1, 1.6, 2.5, 4, 6, Overload (bar): 1 2 2 3 5 8 8 10 10 10

Output signal: 4-20 mA (option: 0-10 V only for GBS02) Permissible impedance: 4-20 mA: $R_A [\Omega] < (Uv [V] - 10 V) / 0.02 A$

Permissible load: 0-10 V: $R_L[\Omega] > 100 \text{ kOhm}$

Auxiliary energy: 10 ... 30 V DC (14 ... 30 V DC at 0-10 V)

Accuracy: accuracy (% of span):

GBS01: ≤ 0.5 setting of cut-off point) resp. ≤ 0.25 (BFSL)

GBS02: accuracy (% of span):

≤ 0.25 (setting of cut-off point) resp. ≤ 0.125 (BFSL); (at 0.1 bar: \leq 0.5 setting of cut-off point) resp. \leq 0.25 (BFSL))

Hysteresis (% of span): Repeatabilty (% of span): ≤ 0.05

Stability per year ≤ 0.2 (at reference conditions)

(% of span):

Operating temperature: -10 ... +50 °C (GBS01) or -10 ... +85 °C (GBS02)

Temperature coefficient ≤ 0.02 / K (for meas, range > 0.4 bar)

(% of span):

Filling: KN77, food safe

chromium-nickel alloy 1.4571. Male thread G 1/2" accessible Housing:

after removal of plastic protection cap.

Ø 27 mm, length of metal body: approx. 100 mm (GBS01), Probe dimensions:

approx. 147 mm (GBS02), cable Ø approx. 7.5 mm 10 m stationary casted PUR cable (GBS01) resp. FEP-ca-

ble (GBS02), loose ends. Glass-fibre screen protects cable against tearing. (Extra long cable against upcharge - please

specify when ordering)

Options GBS01:

extra long connection cable (PUR)

till max. 300 m

Connection:

Options GBS02:

extra long connection cable (FEP, teflon)

till max, 100 m output signal 0-10 V

lightning protection, (Ex)-protection, meas. range 16 and 25 bar





GEE771C-DN15

Product-ID: 602917

Flowmeter with DN15 sensor and assembly ball valve DN15

GEE 771C-DN20

Product-ID: 602918

Flowmeter with DN20 sensor and assembly ball valve DN20

GEE 771C-DN25

Product-ID: 602919

Flowmeter with DN25 sensor and assembly ball valve DN25

Leakage detection: Consumption of compressed air despite of shut-down installations is a serious hint for a leak in one of the pipes (even a 1.5 mm sized hole can already yet energy costs of € 1.500!)

Improvement in efficiency: Compressed air is one of the most expensive form of energy in many plants! Therefore the knowledge about the consumption is essential for the application of an energy management system (e.g. acc. to DIN50001)

General:

The inline flowmeter is based on the thermal mass flow measuring principle and is well suited for flow measurements in pipes DN15 till DN25. It allows measuring the consumption of compressed air (optionally also nitrogen, CO2, oxygen, helium or other nor corrosive, incombustible gases).

The device sets standards in terms of accuracy and repeatability, its unique mounting concept as well as its close-to-application adjustment at a pressure of 7 bar. The mounting in a measurement assembly ensures easy installation and removal of the sensor for regular calibration and assures at the same time an exact and reproducible positioning of the flow sensor in the pipe. There are two signal outputs to read-out the measured values. Depending on the application the outputs can be configured as analog output (current or voltage), switching output or pulse output for consumption measurement.

Configuration software

The flow meter can be configured to its desired use by means of its integrated USB inter-

face and a software included in shipping.

Functions of the software:

configuration of outputs (range / switching points) · 2 point adjustment for flow and temperature

· read-out of consumption meter

• reset of min-/max- values and consumption meter

Specifications:

Measuring unit: Volume flow acc. to DIN1343 Measuring range: DN15: 0,32 ... 63 Nm3/h DN20: 0,57 ... 113 Nm³/h DN25: 0,90 ... 176 Nm³/h

Meas. range temperature: -20 ... +80 °C

Analog output 0(4) ... 20 mA or 0 ... 10 V Output 1: Pulse output or switching output Output 2: 18 - 30 V AC/DC, max. 200 mA Power supply:

Working temperature: -20 ... +60 °C -20 ... +80 °C Media temperature: Working pressure: max. 16 bar

Accessories and spare parts:

GEE-KH-DN15

Product-ID: 604559 Assembly ball valve DN15

GEE-KH-DN20 Product-ID: 604560

Assembly ball valve DN20

GEE-KH-DN25

Product-ID: 607966

Assembly ball valve DN25

GEE-AK-2m

Product-ID: 607967

Connection cable transmitter \leftrightarrow sensor, 2 m