WATER LEVEL / WELL PROBE TANK CONTENTS **MEASURING PROBE**



GBS 01

Art. no. 603059

Water level / well probe

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

GBS 02

Art. no. 603146

Tank contents measuring probe for difficult measuring conditions

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 of GBS 02 is the lateral flow resistance, which prevents media ingress.

Application:

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.

specifications:											
Measuring ranges:	0.1 bar (100 mba	ır) 1	0 bar	= 1	100	m wa	ater co	olum	ın		
Available ranges:	0.1 (GBS 02 only)	,0.25,	0.4,	0.6,	1,	1.6,	2.5,	4,	6,	10	
Overload (bar):	1	2	2	3	5	8	8	10	10	10	
Output signal:	4 20 mA (Optio	on: 0 .	10 V	only	for C	GBS 02	2)				
Permissible impedance:	4 20 mA: R _A [Ω] < (U	v [V] -	-10 V)	/ 0.0)2 A					
Permissible load:	$0 10 \text{ V: R}_{L} [\Omega] >$	100 k	(Ohm								
Auxiliary energy:	10 30 V DC (14	30	V DC	at 0	10\	/)					
Accuracy: GBS 01:	accuracy (% of s ≤0.5 setting of c		point	t) resp	. ≤0.	.25 (B	FSL)				
GBS 02:	accuracy (% of span): ≤0.25 (setting of cut-off point) resp. ≤0.125 (BFSL); (at 0.1 bar: ≤0.5 setting of cut-off point) resp. ≤0.25 (BFSL))										
Hysteresis (% of span):	≤0.1										
Repeatabilty (% of span):	≤0.05										

Stability per year ≤0.2 (at reference conditions) (% of span):

Operating temperature: $-10 \dots +50$ °C (GBS 01) or $-10 \dots +85$ °C (GBS 02) **Temperature coefficient** ≤0.02 / K (for meas. range >0.4 bar)

(% of span):

Filling: KN77, food safe

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

after removal of plastic protection cap.

Probe dimensions: Ø 27 mm, length of metal body: approx. 100 mm (GBS 01),

approx. 147 mm (GBS 02), cable Ø approx. 7.5 mm 10 m stationary casted PUR cable (GBS 01) resp. FEP-cable Connection:

(GBS 02), loose ends. Glass-fibre screen protects cable against tearing. (Extra long cable against upcharge - please specify

when ordering)

Options GBS 01:

extra long connection cable (PUR)

till max, 300 m

Options GBS 02:

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

CO2-TRANSDUCER





HIGHLIGHTS:

- excellent long term stability
- o auto-calibration procedure
- o for surveillance of the recommended CO2 concentration in ambient air
- output signal free scaleable

GT10-CO2-1R

Art. no. 602599 CO₂-Transducer

General:

Due to the fact, that CO₂ is an important indicator for the quality of air in rooms, it's super important to measure the CO₂ content. The recommended CO₂ limit value for ambient air is 1000 ppm. An exceeding of this limit causes tiredness and a loss of concentration. The high quality and precise CO₂-transducer works according to the infrared principle (NDIR). An auto-calibration procedure compensates aging effects and is responsible for an excellent long term stability of this CO2 transducer.

Due to the freely adjustable output signal the transmitter could be used for nearly each existing controller input etc. Additionally, there is a local display which shows beside the actual CO₂ concentration, the minimum and maximum values as well as an optical alarm.

Specifications:				
Measuring range:	Standard: $0 \dots 2000 \text{ ppm CO}_2$ (carbon dioxide) Optional: $0 \dots 5000 \text{ ppm CO}_2$ (carbon dioxide)			
Measuring principle:	infrared principle (NDIR)			
Accuracy:	standard: ± 50 ppm ± 2 % of meas. value (at 20 °C, 1023 mbar) opt. /5000: ± 50 ppm ± 3 % of meas. value (at 20 °C, 1023 mbar)			
Output signal:	4 20 mA (3-wire), standard 0 1 V or 0 10 V (3-wire), upon upcharge			
Output scaling:	free scaleable, by entering display range			

12 ... 30 V DC, max. 600 mA (at option 0 ... 10 V: 18 ... 30 V DC, max. 600 mA)

Permissible burdon (at 4 ... 20 mA): R_A < 200 Ω Perm. load (at 0-...Volt): $R_1 > 3000 \Omega$

Auxiliary energy:

Display: approx. 10 mm hohe, 4-digit LC-display Working condition: -10 ... +50 °C, 5 ... 95 % RH, 850 ... 1100 hPa Storage condition: -25 ... +60 °C, 5 ... 95 % RH, 700 ... 1100 hPa **Electric connection:**

elbow-type plug acc. to EN 175301-803/A (IP65), max. wire cross section: 1.5 mm², wire diameter from 4.5 ... 7 mm

Housing: ABS, 82 x 80 x 55 mm (without elbow-type plug)

with fixing holes for wall mounting Mounting: Mounting distance: 70 x 50 mm (W x H)

Fixing screws: max. shaft-Ø 4 mm Weight: approx. 225 g

min-/max-value memory, optical alarm, input of offset and Features: scale for adjusting via keys possible

MB2: Measuring range: 0 ... 5000 ppm CO₂

AV01: Output signal 0 ... 1 V AV010: Output signal 0 ... 10 V

Accessories and spare parts:

GSN 24-750

Art. no. 604387

Plug-in power supply (230 V AC => 24 V DC/750 mA)