

# PROCESS AUTOMATION



THE MINI-VIBRATING FORK

AS A TRIP AMPLIFIER

***Vibracon Mini***



**New  
150 °C**

# THE UNIVERSAL TRIP AMPLIFIER FOR FLUIDS

The "Vibracon Mini" – the smallest vibrating fork sensor in the world **for 150 °C temperature of medium** – is now at your disposal. The Vibracon Mini

is not only attractively priced – its compact, robust construction in high-grade steel reflects its 'business-like' performance. This new level measurement trip amplifier is therefore eminently suitable for installation in those difficult places that are hard to get at. Its measuring principle has been proven one hundred thousand times. A frequent home for the Vibracon Mini is in pipelines, as an overfill protection device or as a means of providing dry running protection for pumps. An optional AS-Interface bus connection means that it is also the right choice for your factory automation applications (For example in filling and purification plants).

compact

proven







**+**  
**rsatile**

## **ADVANTAGES:**

- 150 °C temperature of medium
- Thoroughly proven measuring principle
- Process connection G 1"
- Flexibility of application
- Minimal dimensions for those tight spots
- Can be installed in pipelines up to 40 mm in diameter
- Local control of function through switch status indication
- Service-friendly plug connections and versions for DC, AC and AS-Interface



**attractively priced**

# TECHNICAL DATA

# TYPE CODE

## Alternating current version (AC)

Supply voltages	19 V ... 253 V, 50/60 Hz
Connectable load:	250 mA
Connector	Valve plug connector

## Direct current version (DC)

Supply voltages	10 V DC ... 35 V DC
Connectable load:	250 mA
Connector	Valve plug connector or M12 x 1

## AS-i Bus

Supply voltages	26 V ... 32 V
Connectable load:	EN 50295
Connector	M12 x 1

## Output, common

Operating time	ca. 0.5 seconds when immersed; ca. 1 second with free vibrating fork
Hysteresis	ca. 2 mm – vertical installation

## Operating conditions

Ambient temperature	–40 °C ... +70 °C; AS-i Bus: –25 °C ... +70 °C
Temperature of medium	–40 °C ... +150 °C
Operating pressure p	–1 bar ... +40 bar
Storage temperature	–40 °C ... +85 °C
Climatic class	IEC 68 Part 2 - 38 Fig. 2a
Protec. class to EN 60529	IP65; with M12 x 1 connector: IP67
EMC	emitted interference in accordance with EN 61326; Operating appara- tus in Class B, Interference immunity in accordance with EN 61326 Appendix A (Industrial applications) and NAMUR recommendation NE 21 (EMC)
Density $\rho$ of measurement medium	min. 0.7 g/cm <sup>3</sup>
Viscosity $\nu$ of measurement medium	up to 10 000 mm <sup>2</sup> /s

## Accessories

Test magnet	Weld-in socket 1/2"
Screw-in adapter G1"	socket spanner

**A1** up to 100 °C

**A5** up to 150 °C

## Process Connection

- G1** G 1/2"
- G2** G 3/4"
- G3** G 1" (A5 only)
- N1** NPT 1/2"
- N2** NPT 3/4"
- R1** R 1/2"
- R2** R 3/4"

## Fork surface

- S** Standard Ra < 3.2

## Electrical output

- WA** AC 2-wire
- E5** DC-PNP 3-wire
- B3** ASI Bus

## Special items

- V1** M12 x 1 connector
- PG** valve connector PG 11
- PN** valve connector NPT 1/2"

## Approvals

- WH** with WHG  
approval/standard
- CG** CSA General  
purpose

**LVL-A.** - ... **S** - ... - ...

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