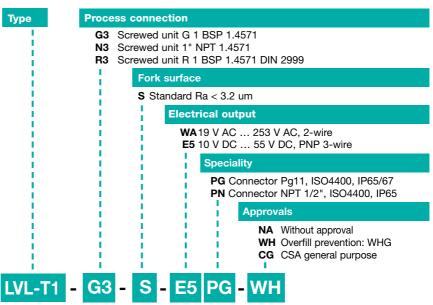




Vibracon LVL-S1





Operating conditions

Ambient temperature:	−40 °C +70 °C
Media temperature:	−40 °C +150 °C
Working pressure p _{e:}	-1 bar +40 bar
Storage temperature:	−40 °C +85 °C
Climatic class:	atmospheric protection according to IEC 68, part 2-38, Fig. 2a
Type of protection according to EN 60 529:	with connector (cable gland Pg 11) IP65/IP67, with cable IP68 (24 h, 1.5 m)
Electro-magnetic compatibility:	interference immunity according to EN 50082-2 (field strength 10 V/m), emitted interference according to EN 50081-1
Density p of the media:	min. 0.7 g/cm ³

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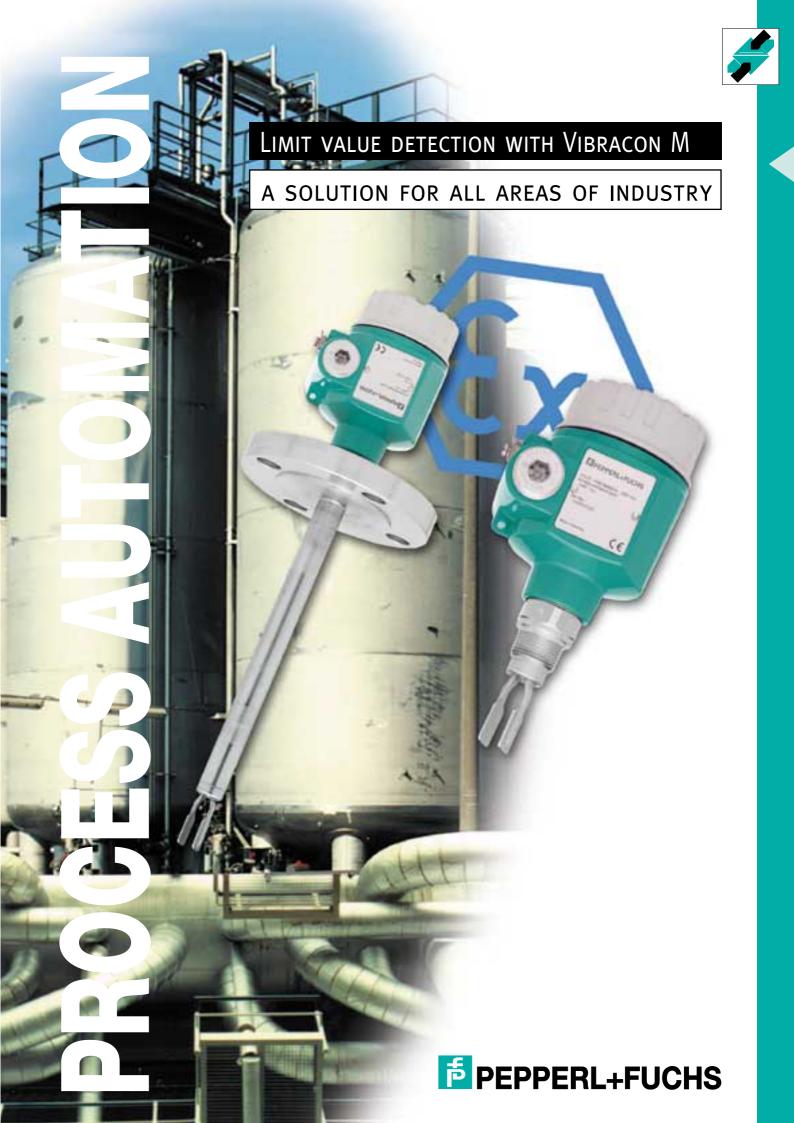
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Product code LVL-M1 LVL-M2 LVL-M2C LVL-M1H with tube extension with tube extension Compact construction With tube extension coated version compact construction food industry version food industry version up to 3 m (ECTFE) Certificate Overfill protection for liquids in accordance EHEDG, 3A, expert assessment for hygienic applications ATEX (EEx ia, EEx d) FM IS, XP 2-wire AC connection (Electronic assembly AC) • 3-wire DC connection (Electronic assembly E5) Connection Technique Universal connection, 2 relay outputs (Electronic assembly WA) • Output 8/16 mA (Electronic assembly SI) NAMUR output (Electronic assembly N1, N2) G 3/4" BSP, G1" BSP (DIN ISO 228/I), R 3/4" BSPT (DIN 2999), Various hygienic and aseptic connections 3/4" NPT (ANSI B 1,20.1), connections (Triclamp®-coupling, milk tube screwed connection,

Ambient conditions:

- Ambient temperature:
 - -50 °C ... +70 °C
- Climatic classification: Climatic protection to IEC 68

1" NPT

Flanges to DIN, ANSI, JIS from DN 25/1"

Process material: 1.4435, Alloy C4 or Halar coating

- Protection class:
 - Plastic/high-grade steel housing, aluminium housing IP 66/IP 67 to EN 60529
 - Aluminium housing (also for EEx d) IP 66/IP 68 to EN 60529
- EMC to EN 61326-1:

RFI/EMC immune up to 10 V/m

Measured media conditions:

Temperature of measured media: -40 °C ... +150 °C

Varivent®, DRD, SMS, flush front connection

Flanges to DIN, ANSI, JIS from DN 25/1"

Process material: 1.4435 or Alloy C4

LVL-M2H

- Pressure of media: -1 bar ... +64 bar
- Aggregate condition: Liquid
- Density: min. 0.5 g/cm³
- Viscosity: up to 10,000 mm²/s
- Solid material components: max. diameter 5 mm
- Temperature shock: max. 120 °C/s

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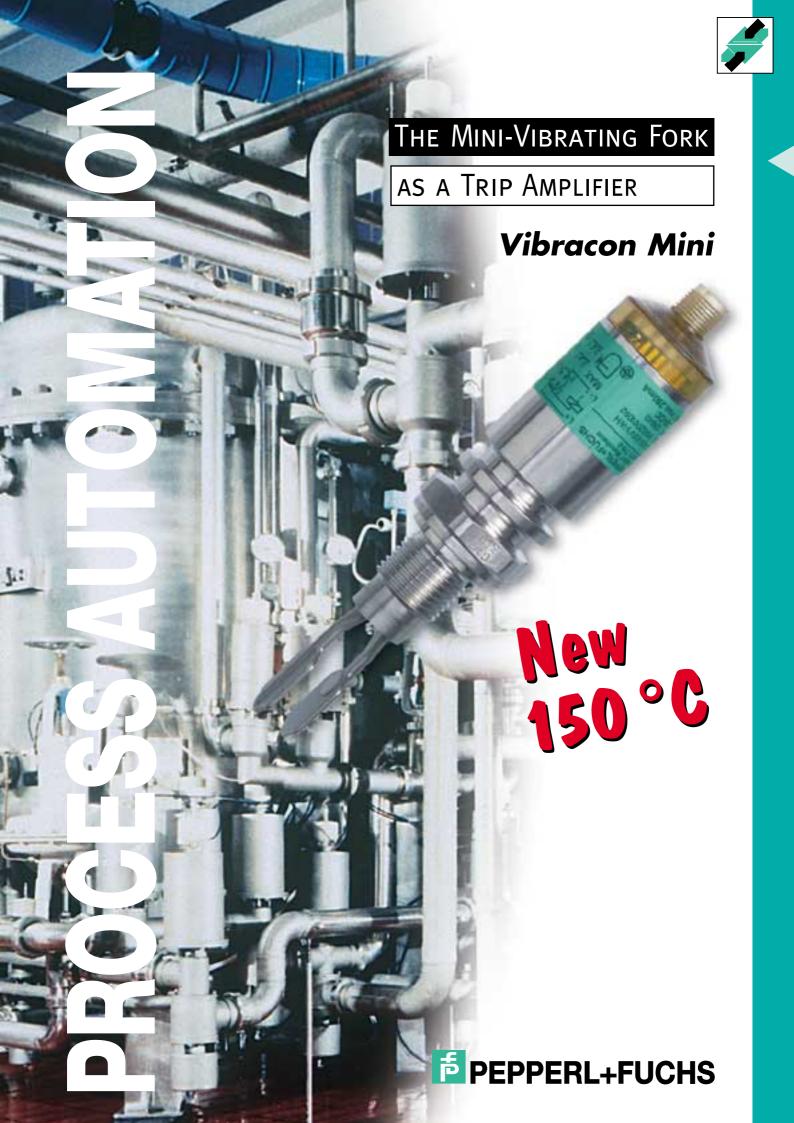
Asia Pacific Headquarters

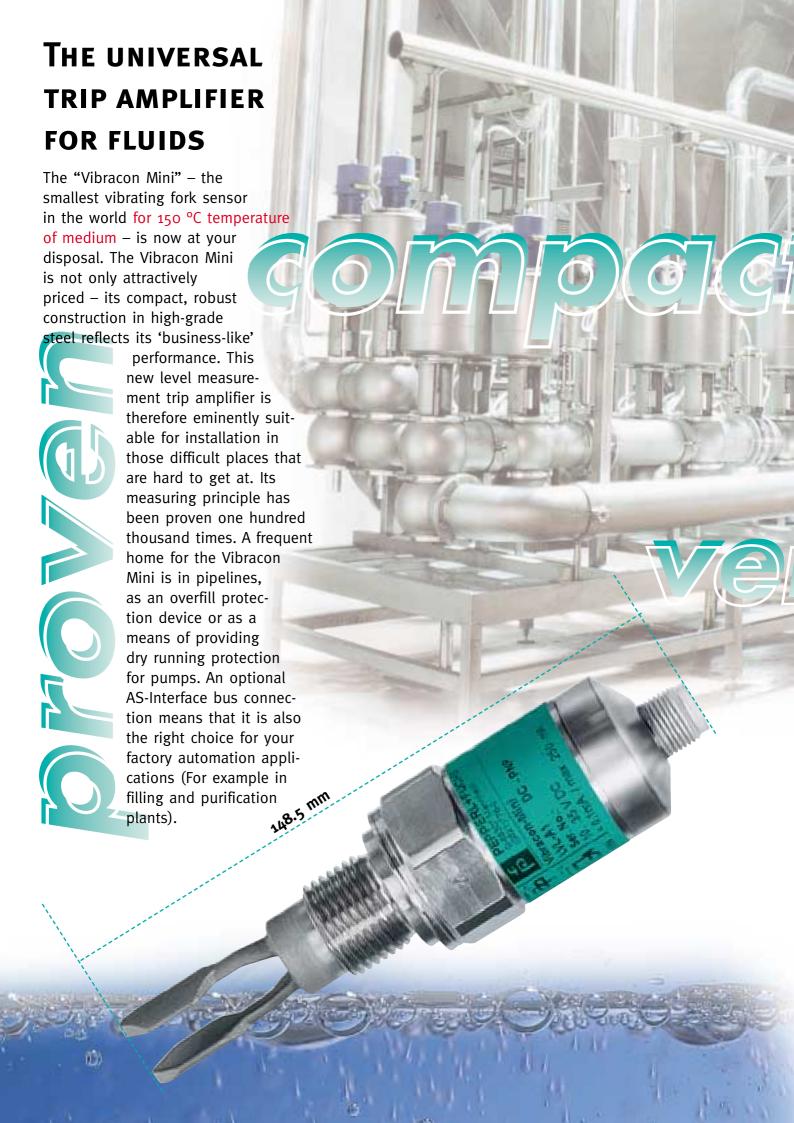
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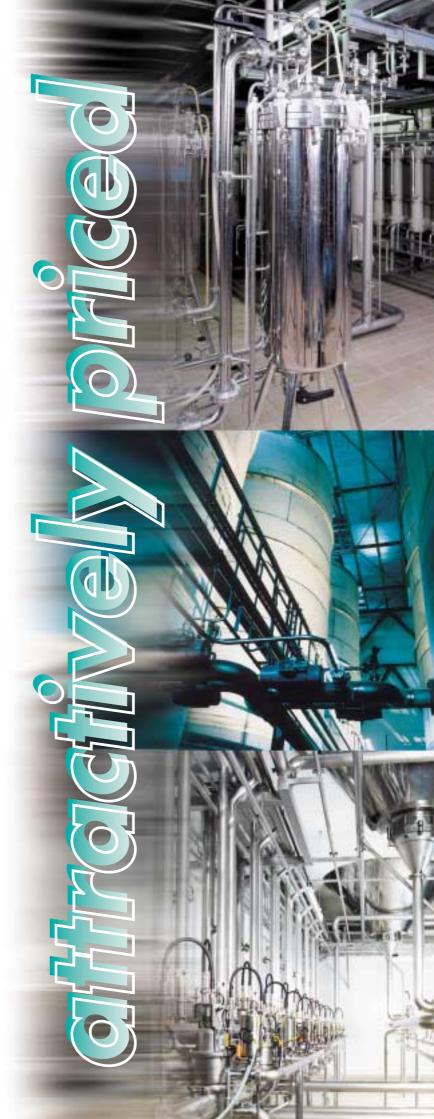








- Process connection G 1"
- Flexibility of application
- Minimal dimensions for those tight spots
- Can be installed in pipelines up to 40 mm in diameter
- Local control of function through switch status indication
- Service-friendly plug connections and versions for DC, AC and AS-Interface



TECHNICAL DATA

Type Code

A1 up to 100 °C

A5 up to 150 °C

Alternating current version (AC) Supply voltages 19 V

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 $-40 \, ^{\circ}\text{C} \dots +70 \, ^{\circ}\text{C};$

AS-i Bus: -25 °C ... +70 °C

Temperature of medium $-40 \, ^{\circ}\text{C} \dots +150 \, ^{\circ}\text{C}$ Operating pressure p $-1 \, \text{bar} \dots +40 \, \text{bar}$ Storage temperature $-40 \, ^{\circ}\text{C} \dots +85 \, ^{\circ}\text{C}$ Climatic class IEC 68 Part 2 - 38 Fig. 2a

Protec. class to EN 60529

EMC

IP65; with M12 x 1 connector: IP67 emitted interference in accordance with EN 61336; Operating appare

with EN 61326; Operating apparatus in Class B, Interference immunity in accordance with EN 61326

Appendix A (Industrial applications) and NAMUR recommendation NE 21 (EMC)

Density ρ of min. 0.7 g/cm³

measurement medium

Viscosity v of up to 10 000 mm²/s

measurement medium

Accessories

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

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 34" Fork surface 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

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