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ДАТЧИКИ ТЕМПЕРАТУРЫ

Технические характеристики на VITO LT



Technical Specifications

Temperature Measurement: 767 VITO LT Temperature Probe, 768 VITO LT Temperature & Water Probe

Principle	
Measuring principle	Cold junction compensated thermocouples (type T) to measure the temperature differentials with respect to a 4 wire 1/5 DIN Class A Pt100 reference resistor, physically embedded to cold junction
Number of elements	0 temperature elements
Measuring Specifications	
767 Probe temp. range	-55 °C to +135 °C (-67 °F to +275 °F)
768 Probe temp. range	-55 °C to +135 °C (-67 °F to +275 °F)
Storage temperature	-55 °C to +135 °C (-67 °F to +275 °F)
Probe accuracy	±0.1 °C (±0.18 °F) *1
Measuring resolution	0.01 °C (0.01 °F)
Measuring length	Refer to Identification Code (also see dimensional drawing). For longer probes consult factory.

Water Sensing: 768 VITO LT Temperature & Water Probe

Principle	
Principle	PTFE sheathed capacitive probe
Measuring Specifications	
Measuring range	50 cm (20"), 100 cm (39") and 200 cm (79")
Instrument accuracy	±2 mm (0.078") *1, water is measured only between 0 °C to +100 °C (+32 °F to +212 °F) process temperature range.
Measuring resolution	0.1 mm (0.004")
Minimum water level	25 mm (0.98")

General: 768 VITO LT Temperature & Water Probe

Mechanical	
Sheathing	Stainless steel AISI 316L (mat. no. 1.4404) corrugated probe
Adjusting pipe	Stainless steel AISI 316L (mat. no. 1.4404), adjustable length: ±230 mm (±9"), ISO 228/1-G1/2B (1/2" BSP)
Lining water probe	PFA (fluoropolymer)
Outer diameter of probe	27 mm (1.06") for 767 VITO LT probe and 40 mm (1.57") for 768 VITO LT probe
Mounting flange	Optional, 1/2 BSP threaded mounting hole required
Anchor weight	Optional, max. 23 kg (50 lb)
Environmental Safety	
Operating pressure	5 bar / 500 kPa (72 psi) Hydrostatic pressure
Safety	<ul style="list-style-type: none"> - II 1G Ex ia IIB T4 Ga; acc. to ATEX KEMA 01ATEX1212 - Ex ia IIB T4 Ga; acc. to IECEx KEM 05.0014 - Ex ia IIB Ta; acc. to Kosha certificate; 13-AV4BO-0487 - Class I, Division 1, Groups C & D; acc. to FM I. D. 3015746 - Class I, Division 1, Groups C & D; acc. to CSA certificate 1635480 - Ex ia IIB T4 Ga ; acc. to INMETRO TUV 13.0975 X
Electrical	
For other approvals and updates please consult factory	
Flying lead length	Color coded PTFE insulated stranded wires. Length: 35 cm (14"), 120 cm (47") and 500 cm (197")

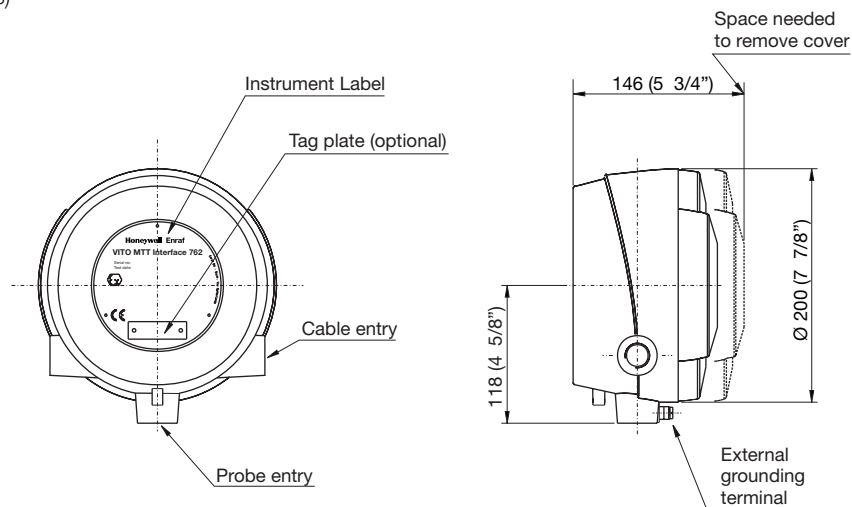
762 VITO Interface

Specifications	
Application	An electronic converter used in combination with the VITO probes
Data communication	HART® communication to tank gauging ATG *2
Ambient temp. range	-40 °C to +60 °C (-40 °F to +140 °F)
Storage temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Cable entry	Cable entry options; M20 x 1.5, 3/4" NPT via reducer and PG16 via reducer
Mounting	Direct on VITO probes using standard 1/2" BSP entry
Housing	Chromatised, Polyurethane coated Aluminum, GD-AISi10Mg
Ingress protection	IP66 / IP67 according to EN 60529 (NEMA 4X)
Safety	<ul style="list-style-type: none"> - II 1/2G Ex ia IIB T4 Ga/Gb ; acc. to ATEX KEMA 01ATEX1212 - Ex ia IIB T4 Ga/Gb ; acc. to IECEx KEM 05.0014 - Ex ia IIB Ta; acc. to Kosha certificate; 13-AV4BO-0487 - Class I, Division 1, Groups C & D; acc. to FM I. D. 3015746 - Class I, Division 1, Groups C & D; acc. to CSA certificate 1635480 - Ex ia IIB T4 Ga/Gb ; acc. to INMETRO TUV 13.0975 X
For other approvals and updates please consult factory	

Dimensional Drawing

762 VITO Interface

Dimensions in mm (inches)



Identification Code: 762 VITO Interface

Pos 1 W&M Approved

- U General purpose
- X With W&M type approval only if Pos 2 = T

Pos 2 Version

- P VITO LT interface (for VITO LT probe)
- R VITO MRT interface for resistance measurements (MRT/RTD/361 MPT)
- T VITO interface for 764/765/766/864 VITO probes

Pos 3 Position Not Used

*

Pos 4 Position Not Used

*

Pos 5, 6, 7 Product Designation

- 7 6 2 VITO Interface

Pos 8 Entry to Sensor

- * No IP adapter
- 1 IP adapter (only if Pos 9 = A)

Note: recommended for environments with high humidity and strong fluctuations in ambient temperature.

Pos 9 Entry to Sensor

- A G 1/2 (standard in box)
- B 3/4" NPT (only when Pos 2 = R)

Pos 10 Cable Entry

- G M20 x 1.5 (only when Pos 11 = A or I)
- N 3/4" NPT; via reducer
- S PG16 via reducer (only when Pos 11 = A or I)

Pos 11 Safety Approvals

- A ATEX / IEC Ex Europe / Global
- F FM / CSA USA / Canada
- I INMETRO Brazil

Pos 12 Separator

●

Pos 13 Tag Plate

- Z No tag plate
- T Tag plate (Material: CuNi alloy)



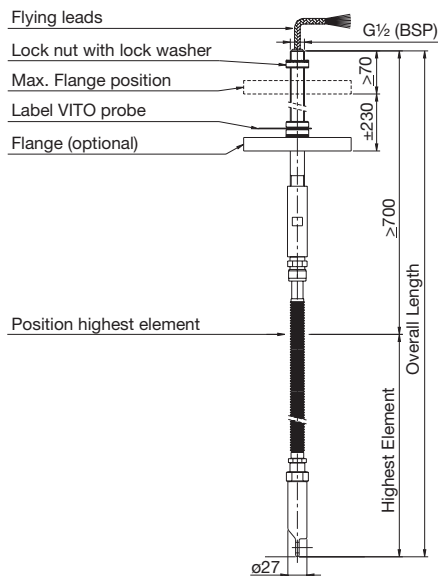
Typical Identification Code

Your Identification Code

Dimensional Drawing

767 VITO LT Temperature Probe

Dimensions in mm



Identification Code: 767 VITO LT Temperature Probe

Pos 1 W&M Approved

U General purpose

Pos 2 Temperature Range

S Standard -55 °C to +135 °C (-67 °F to +275 °F)

Pos 3 Safety Approvals

- A** ATEX Europe
- F** FM USA
- I** INMETRO Brazil

Pos 4 Length Flying Lead

- N** 35 cm
- O** 120 cm
- P** 500 cm

Pos 5, 6, 7 Product Designation

7 6 7 VITO temperature probe

Pos 8 Position of Lowest Temperature Element

- C** Lowest element at 1 meter from bottom of probe
- D** Lowest element at bottom of probe

Pos 9, 10, 11, 12 Overall Length in Steps of 10 cm (price per meter)

1 0 Range 0370 to 2500

Pos 13, 14, 15, 16 Position of Highest Temperature Element

● ● # 0 Range 300 to 2430 in steps of 10 cm
(at least 70 cm from top of probe)

Pos 17 Separator

/

Pos 18 Tag Plate

- Z** No tag plate
- T** Tag plate (Material: CuNi alloy)

U S A N 7 6 7 C 1 2 5 0 1 1 2 0 / Z
U S O 7 6 7 0 0 0 0 / Z

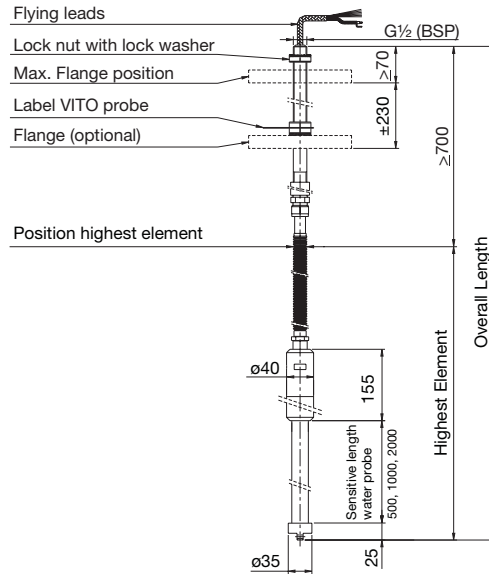
Typical Identification Code

Your Identification Code

Dimensional Drawing

768 VITO LT Temperature and Water Probe

Dimensions in mm



Identification Code: 768 VITO LT Temperature and Water Probe

Pos 1 W&M Approved

U General purpose

Pos 2 Sensitive Length for Water Bottom Measurement

- A** 050 cm
- B** 100 cm
- C** 200 cm

Pos 3 Safety Approvals

- A** ATEX Europe
- F** FM USA
- I** INMETRO Brazil

Pos 4 Length Flying Lead

- N** 35 cm
- O** 120 cm
- P** 500 cm

Pos 5, 6, 7 Product Designation

7 **6** **8** VITO temperature and water probe

Pos 8 Position of Lowest Temperature Element

- C** Lowest element at minimum 1 meter from bottom of probe (if Pos 2 = A)
- D** Lowest element at bottom of probe

Pos 9, 10, 11, 12 Overall Length in Steps of 10 cm (price per meter)

- # # # 0** Range 0420 - 2500 if Pos 2 = A
- # # # 0** Range 0470 - 2500 if Pos 2 = B
- # # # 0** Range 0570 - 2500 if Pos 2 = C

Pos 13, 14, 15, 16 Position of Highest Temperature Element (at least 70cm from top of probe)

- # # # 0** Range 0350 - 2430 in steps of 10 cm if Pos 2 = A
- # # # 0** Range 0400 - 2430 in steps of 10 cm if Pos 2 = B
- # # # 0** Range 0500 - 2430 in steps of 10 cm if Pos 2 = C

Pos 17 Separator

7

Pos 18 Tag Plate

- Z** No Tag plate
- I** Tag plate (Material: CuNi alloy)

Typical Identification Code
U A A N 7 6 8 C 1 2 5 0 1 0 2 0 7 Z
U A O 7 6 8 C 1 2 5 0 1 0 2 0 7 Z
Your Identification Code

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