Honeywell Enraf





Temperature and water bottom measurement.

The VITO family for temperature and water bottom measurement together with Honeywell Enraf tank gauges is the ultimate answer for inventory control. The VITO-MTT is a robust and reliable device representing the leading edge in sensor technology, fully complying with all major industrial standards. Its accuracy exceeds the requirements for Weights & Measures accepted temperature information. The VITO-MTT provides average

temperature, temperature profiles and vapor temperature. This parameter can be used for mass calculations of the product in the gas phase, contributing to your loss-gain control. Optionally, a digital water bottom measurement can be integrated to ensure high accuracy compared to analog probes. The system complies with safety requirements for use in hazardous areas.

Technical specifications

VITO MTT Temperature probe

Measuring specifications

Temperature range : See identification code 764 Pos. 2

Accuracy : $< \pm 0.1$ °C (0.18 °F) ¹⁾ Measuring resolution : 0.01 °C (0.01 °F)

Principle

Measuring principle : 16 Temperature elements divided over the sensitive length.

15 Temperature elements divided over the sensitive length (If Pos 8 is C)

Reference RTD : Pt100, accuracy ± 0.06 °C at 0 °C (0.11 °F at 32 °F)

Sensor : Type T (Copper / Constantan), Class 2 according to IEC 584-2

VITO Water probe

Measuring specifications

Operating temperature : $0 \,^{\circ}\text{C}$ to $+100 \,^{\circ}\text{C}$ (+32 $^{\circ}\text{F}$ to $+212 \,^{\circ}\text{F}$) Storage temperature : $-55 \,^{\circ}\text{C}$ to $+135 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+275 \,^{\circ}\text{F}$)

Measuring resolution : 0.1 mm

Minimum water level : 25 mm above lowest part of probe

VITO MTT Combi probe

Mechanical

Dimensions : Maximum outer diameter 40 mm

Operating temperature : 0 °C to +100 °C (+32 °F to +212 °F)

Storage temperature : -55 °C to + 135 °C (-67 °F to +275 °F)

Adjusting pipe : Adjustable length ±230 mm, G½ threaded

VITO MTT Interface

Mechanical

Housing material : Coated aluminum

Cable entry : M20 x 1.5 (standard)

3/4" NPT or PG 16 via reducer (optional)

General

Environmental

Ambient temperature : $-40 \, ^{\circ}\text{C}$ to $+60 \, ^{\circ}\text{C}$ ($-40 \, ^{\circ}\text{F}$ to $+140 \, ^{\circ}\text{F}$)

Operating pressure : 5 bar / 500 kPa (72 psi) hydrostatic pressure

Safety : The VITO probe is a passive device and is i.s. for connection with VITO interface

- II 1G EEx ia IIB T4 According to ATEX (probes)
- Zone 0 Ex ia IIB T4 According to IECEx (probes)
- II 1/2G EEx ia IIB T4 According to ATEX (interface)
- Zone 0/1 Ex ia IIB T4 According to IECEx (interface)

- Class I, Division 1, Groups B 3), C and D, in acc. to NFPA 70 (FM, USA)

Materials

Sheathing : Stainless Steel AISI 316L (Werkstoff 1.4404) corrugated tube

Fittings and adjusting pipe : AISI 316L (Werkstoff 1.4404) Stainless Steel

Electrical

Connection leads : PTFE isolated, standard length 0.35 m

Options

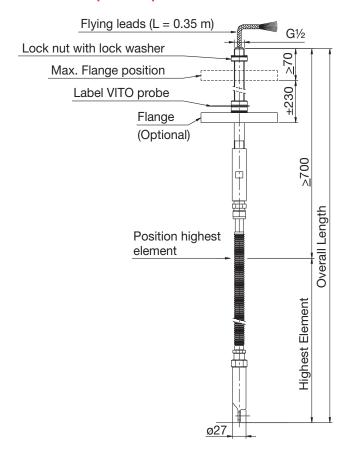
Mounting flange : 2" 150 lb r.f. with G½ threaded mounting hole.

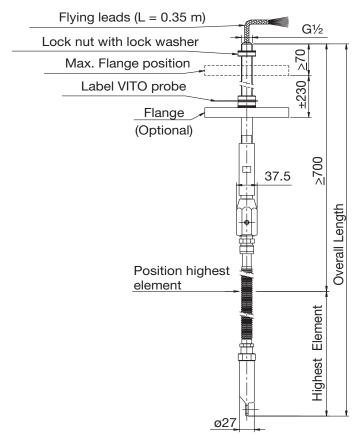
For other flanges please contact an Enraf office

Anchor weight : max. 23 kg

¹⁾ Under reference conditions

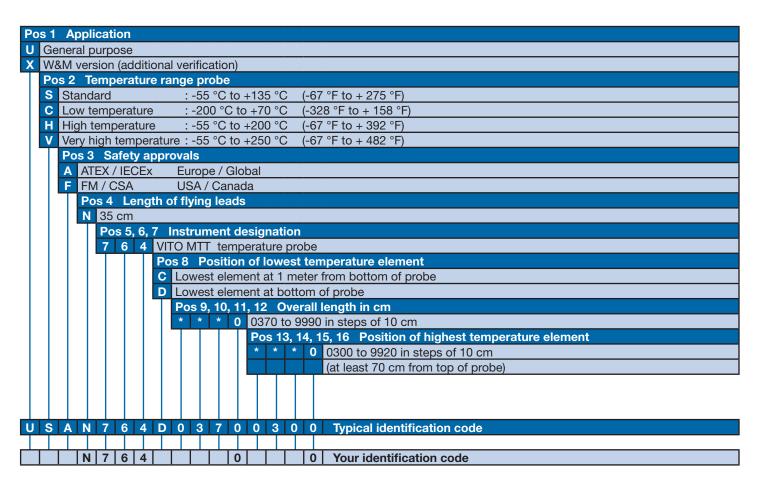
VITO MTT Temperature probe

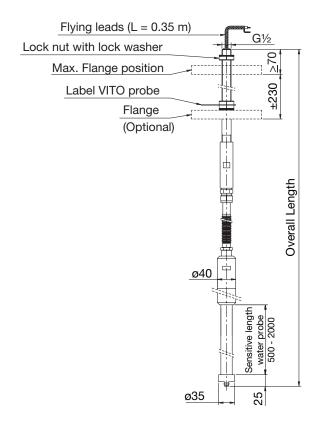




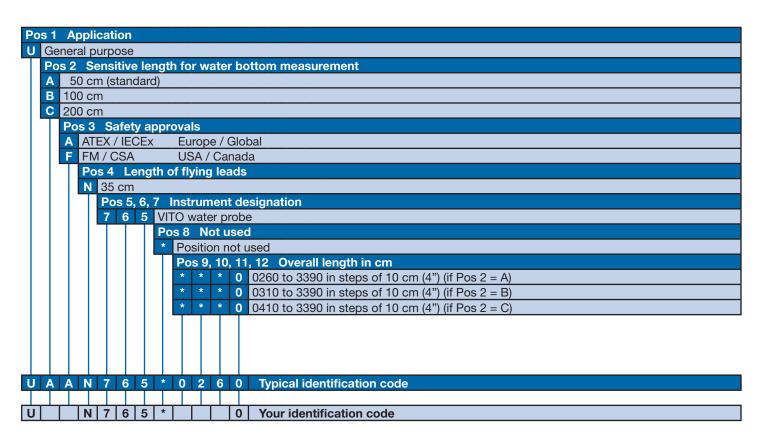
Low temperature version

Identification code 764

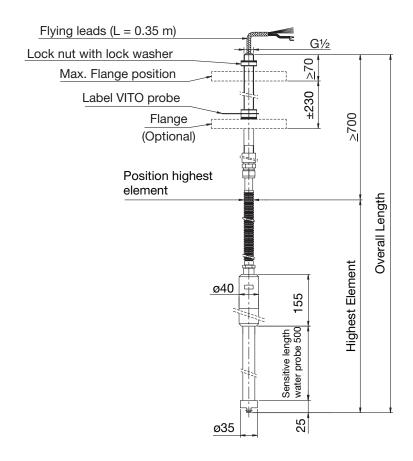




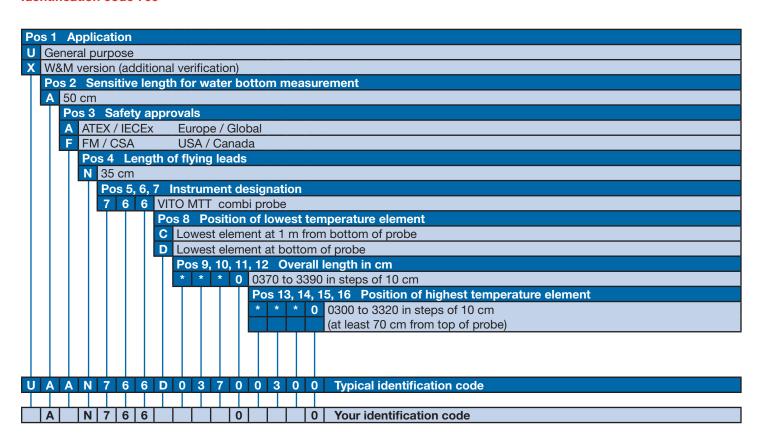
Identification code 765



VITO MTT Combi probe

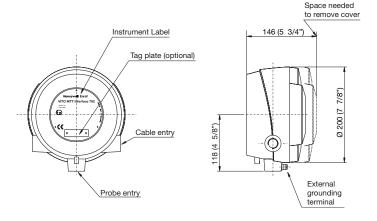


Identification code 766

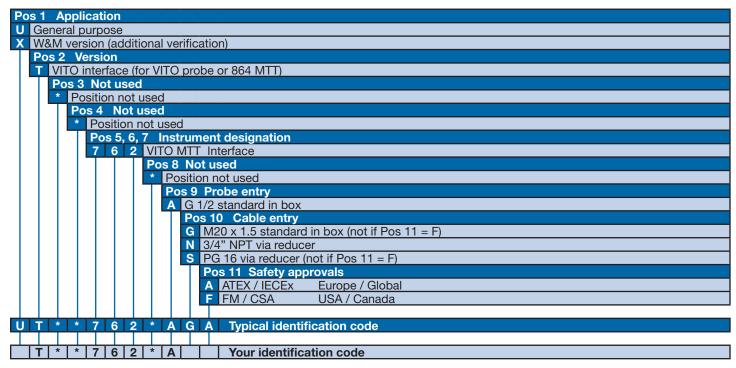


Dimensional drawing VITO Interface





Identification code 762



For More Information

To learn more about Honeywell Enraf's solutions, contact your Honeywell Enraf account manager or visit www.honeywellenraf.com.

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