



#### **Temperature and water bottom measurement.**

The VITO LT is a member of the VITO family product line for temperature and water bottom measurement. The VITO LT is used for less demanding requirements in comparison with the W&M approved VITO series. Like any member of the VITO family, the VITO LT is a robust and reliable device representing the leading edge in sensor technology, fully complying with all major industrial standards. The VITO LT sensors provide average temperature of your stored product by averaging the emerged temperature sensing elements to take the effect of product layers into account. Optionally it measures the water level at the bottom of the tank. Together with the Honeywell Enraf tank gauges, the VITO LT contributes in solving your accurate tank inventory management needs.

## Technical specifications

### VITO LT Temperature probe

#### Measuring specifications

Temperature range	:	See identification code 767 Pos. 2
Accuracy	:	$< \pm 0.1 \text{ }^{\circ}\text{C}$ (0.18 °F) <sup>1)</sup>
Measuring resolution	:	0.01 °C (0.01 °F)

#### Principle

Measuring principle	:	9 Temperature elements divided over the sensitive length
Reference RTD	:	Pt100, accuracy $\pm 0.06 \text{ }^{\circ}\text{C}$ at 0 °C (0.11 °F at 32 °F)
Sensor	:	Type T (Copper / Constantan), Class 2 according to IEC 584-2

### VITO LT Combi probe

For temperature part	:	See above VITO LT Temperature probe
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#### Measuring specifications

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

Tube	:	PFA
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### VITO LT Interface

#### Mechanical

Material	:	GD-AISI10Mg
Cable entry	:	M20 x 1.5 (standard) 3/4" NPT or PG 16 via reducer (optional)

### General

#### Environmental

Ambient temperature	:	-40 °C to +60 °C (-40 °F to +140 °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 <ul style="list-style-type: none"><li>- II 1G EEx ia IIB T4 According to ATEX (probes)</li><li>- Zone 0 Ex ia IIB T4 According to IECEx (probes)</li><li>- II 1/2G EEx ia IIB T4 According to ATEX (interface)</li><li>- Zone 0/1 Ex ia IIB T4 According to IECEx (interface)</li><li>- Class I, Division 1, Groups B 3), C and D, in acc. to NFPA 70 (FM, USA)</li></ul>

#### 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
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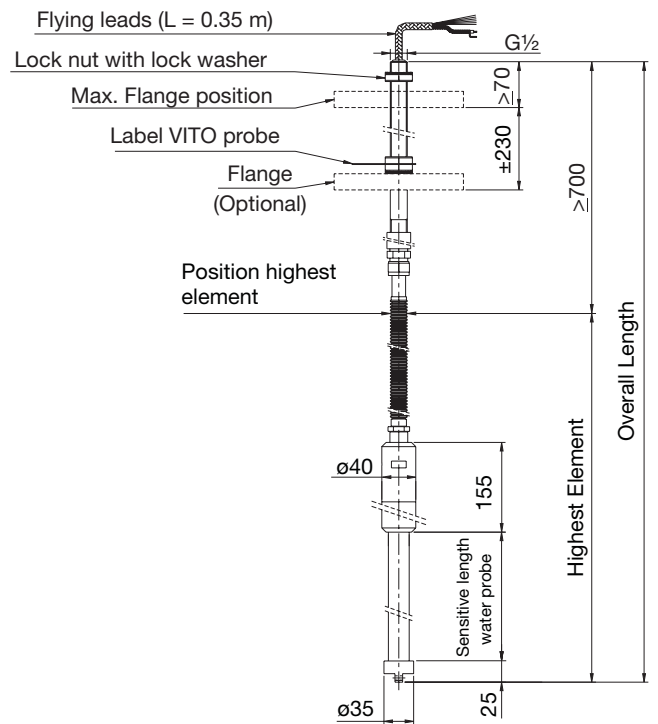
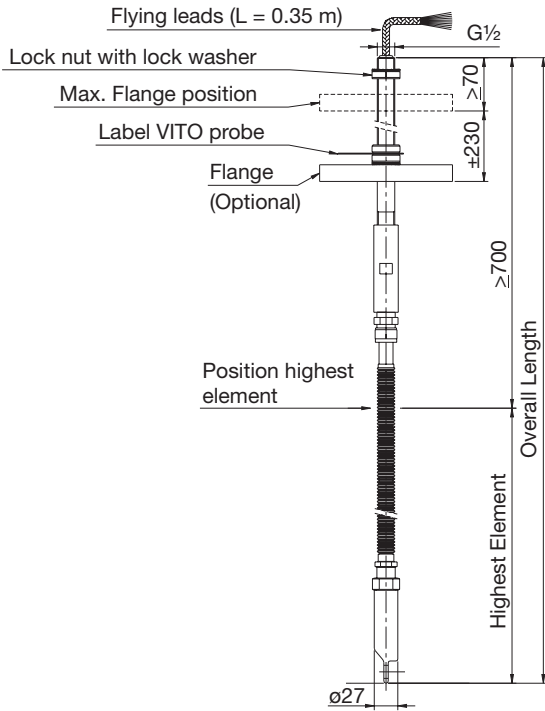
#### Options

Mounting flange	:	2" 150 lb r.f. with G1/2 threaded mounting hole. For other flanges please contact an Enraf office
Anchor weight	:	max. 23 kg

<sup>1)</sup> Under reference conditions

VITO LT Temperature probe type 767

VITO LT Combi probe type 768



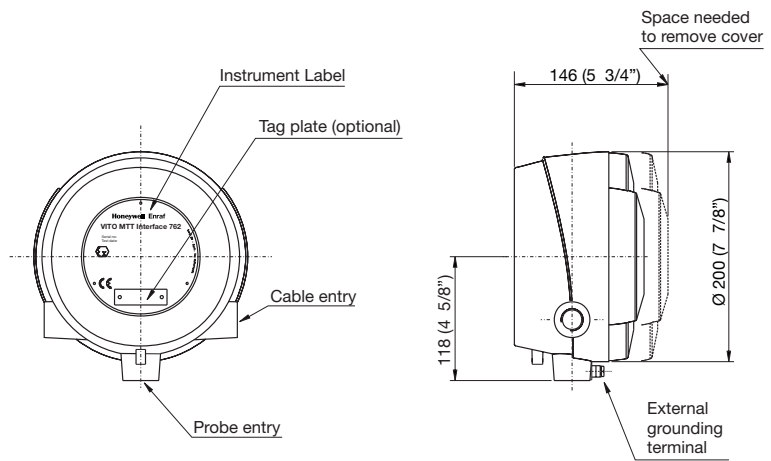
Identification code 767

<b>Pos 1 Application</b>																	
U	General purpose																
<b>Pos 2 Temperature range probe</b>																	
S	Standard : -55 °C to +135 °C (-67 °F to + 275 °F)																
<b>Pos 3 Safety approvals</b>																	
A	ATEX / IECEx Europe / Global																
F	FM / CSA USA																
<b>Pos 4 Length of flying leads</b>																	
N	35 cm																
<b>Pos 5, 6, 7 Instrument designation</b>																	
7	6	7	VITO LT temperature probe														
<b>Pos 8 Position of lowest temperature element</b>																	
C	Lowest element at 1 m from bottom of probe																
D	Lowest element at bottom of probe																
<b>Pos 9, 10, 11, 12 Overall length in cm</b>																	
*	*	*	0	0370 to 2000 in steps of 10 cm													
<b>Pos 13, 14, 15, 16 Position of highest temperature element</b>																	
*	*	*	0	0300 to 1930 in steps of 10 cm													
(at least 70 cm from top of probe)																	
U	S	A	N	7	6	7	C	0	3	7	0	0	3	0	0	Typical identification code	
U	S		N	7	6	7					0				0	Your identification code	

Identification code 768

<b>Pos 1 Application</b>																	
U	General purpose																
<b>Pos 2 Sensitive length for water bottom measurement</b>																	
A	050 cm																
B	100 cm																
C	200 cm																
<b>Pos 3 Safety approvals</b>																	
A	ATEX / IECEx Europe / Global																
F	FM / CSA USA																
<b>Pos 4 Length of flying leads</b>																	
N	35 cm																
<b>Pos 5, 6, 7 Instrument designation</b>																	
7	6	8	VITO LT combi probe (temperature and water)														
<b>Pos 8 Position of lowest temperature element</b>																	
C	Lowest element at 1 m from bottom of probe																
D	Lowest element at bottom of probe																
<b>Pos 9, 10, 11, 12 Overall length in cm</b>																	
*	*	*	0	0370 to 2000 in steps of 10 cm													
<b>Pos 13, 14, 15, 16 Position of highest temperature element</b>																	
*	*	*	0	0300 to 1930 in steps of 10 cm													
(at least 70 cm from top of probe)																	
U	A	A	N	7	6	8	C	1	2	5	0	1	0	2	0	Typical identification code	
U			N	7	6	8					0				0	Your identification code	

## Dimensional drawing VITO Interface



## Identification code 762

<b>Pos 1 Application</b>											
U	General purpose										
<b>Pos 2 Version</b>											
P	VITO interface (for VITO LT probe)										
<b>Pos 3, 4 Not used</b>											
*	*	Position not used									
<b>Pos 5, 6, 7 Instrument designation</b>											
7	6	2	VITO LT Interface								
<b>Pos 8 Not used</b>											
*	Position not used										
<b>Pos 9 Entry to sensor</b>											
A	G 1/2 (standard in box)										
<b>Pos 10 Cable entry</b>											
G	M20 x 1.5 standard in box (not if Pos 11 = F)										
N	3/4" NPT via reducer										
S	PG 16 via reducer (not if Pos 11 = F)										
<b>Pos 11 Safety approvals</b>											
A	ATEX / IECEx Europe / Global										
F	FM / CSA USA										
U	P	*	*	7	6	2	*	A	G	A	<b>Typical identification code</b>
U	P	*	*	7	6	2	*	A			<b>Your identification code</b>

### For More Information

To learn more about Honeywell Enraf's solutions, contact your Honeywell Enraf account manager or visit [www.honeywellenraf.com](http://www.honeywellenraf.com).

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