

# High Pressure Housing

For Temposonics® R-Series Position Sensors



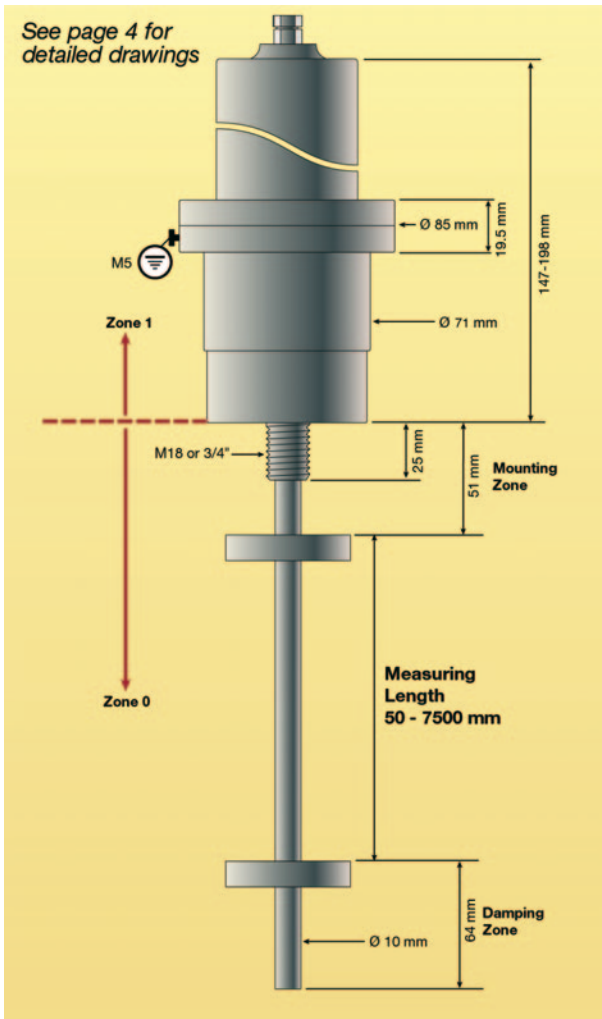
CE

CLASSIFIED  
UL US

Ex

ATEX

**MTS**  
SENSORS



## Precision Position Measurement High Pressure Housing

This High Pressure Housing is ATEX EEx as well as UL and cUL approved for use in hazardous locations with Temposonics position sensors.

The ATEX, UL and cUL approvals cover flammable gases, vapors, liquids and dust.

This housing is made to fit Temposonics G-Series and L-Series Analogue + Start/Stop Sensors, R-Series sensors with analogue and digital outputs. Both fixed cable and connector versions can be used. When using a standard sensor in this housing you get a cost efficient solution for use in hazardous locations which also allows easy sensor replacement.

Several design combinations are available to fit your application: M18 or 3/4" UNF mounting flange thread - M20 or 1/2" NPT cable gland thread - long or short top-mounted, side-mounted or dual side-mounted cable glands. See combination chart.

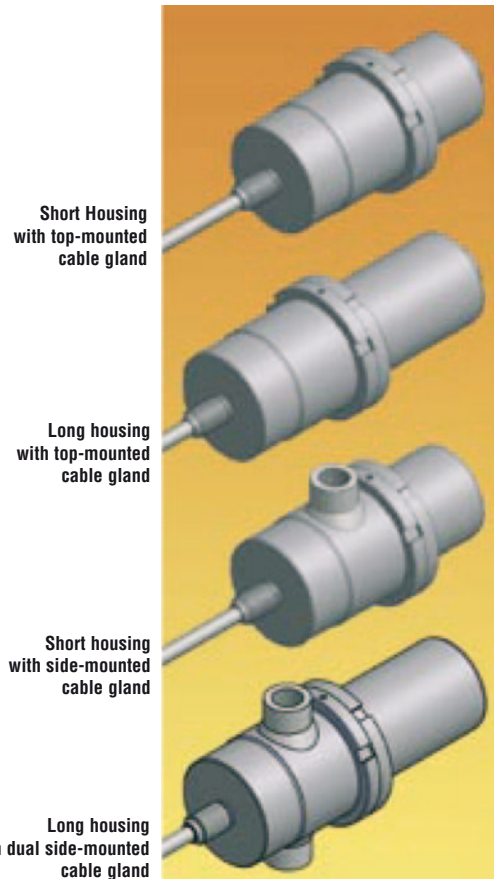
All parts are made of 316L stainless steel. The housing is also available in non-approved versions ensuring an outstanding protection to the sensor when used in rigged applications with high humidity and aggressive gases.

**Protection type:**

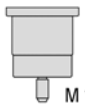
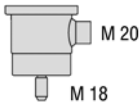
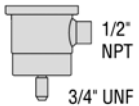
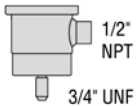
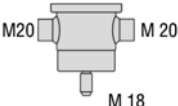




**ATEX:** II 2 G Ex d IIC T5 T<sub>amb</sub> -40°C to +60°C  
 II 2 D Ex tD 20/A21 IP68 T 100°C  
 ITS09ATEX16296X  
 In accordance with EN 60079-0:2006  
 EN 60079-1:2007, EN 60079-26:2004,  
 EN 60079-0:2006 and EN 61241-1:2004  
 Only with ATEX approved cable glands  
 Class 1, Division 1, Groups A, B, C, and D hazardous  
 locations, temperatur code T5  
 As to fire, electrical shock and explosion hazards only  
 UL certificated no. 2PDD.  
 In accordance with UL 1203 standard.  
 Only with UL approved cable glands

**Material:** Stainless steel AISI 316L (1.4404)  
**Cable gland threads:** M20 x 1,5 or 1/2" NPT  
**Ingress protection code:** IP68 (only with IP68 approved cable gland)  
**Approved sensors:** G-Series Analogue+Digital  
 L-Series Start/Stop  
 R-Series Analogue  
 R-Series Profibus  
 R-Series CANBUS  
 R-Series SSI  
 R-Series DeviceNet

**Mounting flange:** M18 x 1,5 or 3/4" - 16UNF - 3A  
**Pressure rating:** 350 bar  
**Peak pressure:** 530 bar  
**Magnet typ:** Ring magnete  
**Level Measurement:** Float on request  
**Operating temperature:** -40°C ... +60°C (Basis T5)



Combination chart

<b>Bottom</b> <b>Top</b>					
<b>Approval</b>	<b>ATEX</b>	<b>ATEX</b>	<b>ATEX</b>	<b>UL and cUL</b>	<b>ATEX</b>
	<b>0100</b>				
		<b>0900</b>	<b>1000 ATEX</b>	<b>1000 UL/cUL</b>	<b>1300</b>
	<b>0300</b>				
					<b>2100</b>

Ordering Information:

Part No.

HPH -XXXX-XXXX-X-XXXXXX

Choose a design combination from the chart below

Measuring length (see drawing on opposite side)

A - Approved version

N - Non approved version

For version 1000 please add type of approval

- ATEX

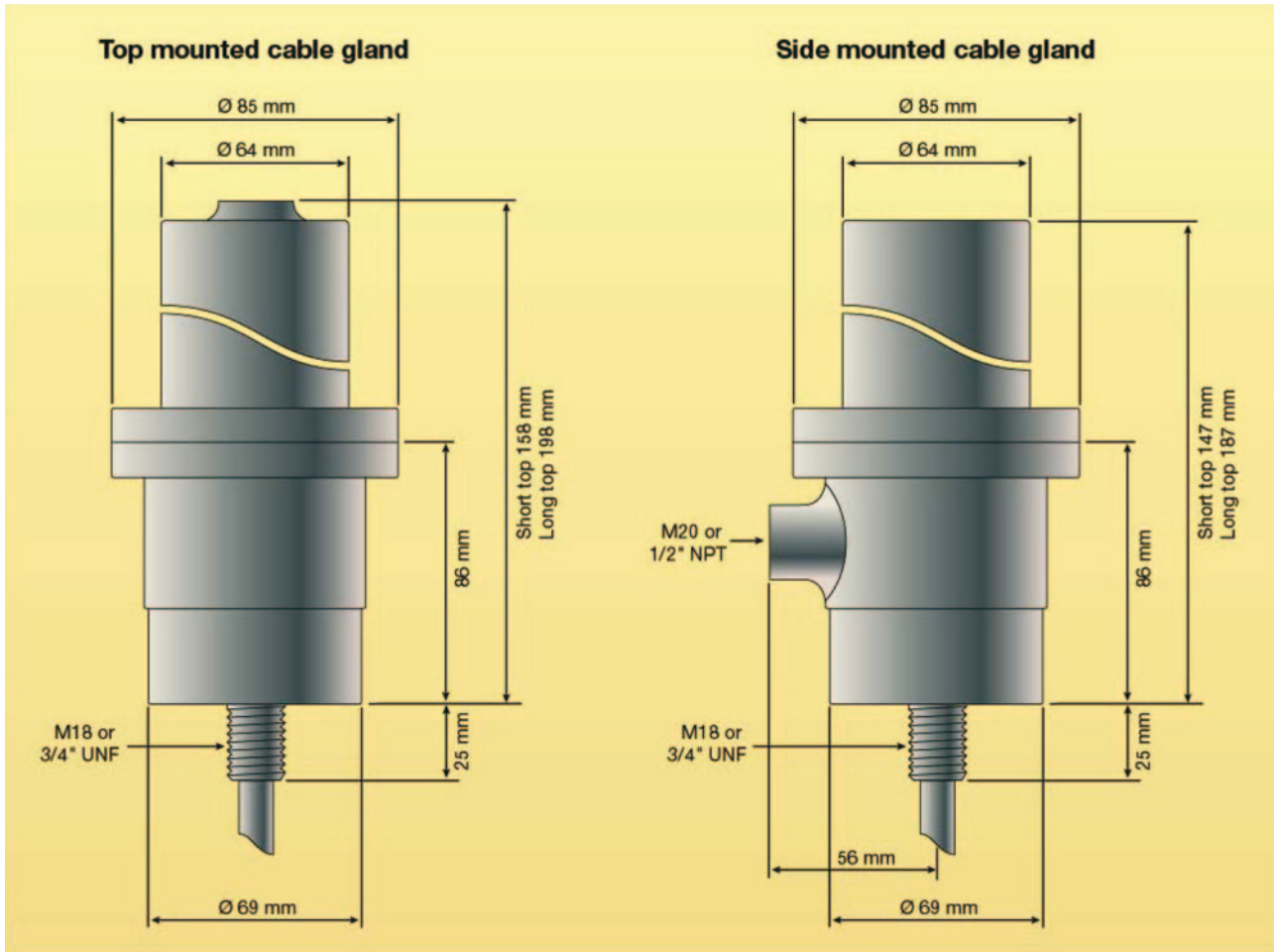
- UL/cUL

Example: Approved short housing with M18 mounting threads and one side mounted cable gland with N20 threads and a measuring length of 650 mm:

**HPH-0900-0650-A**

Accessories

Description	Part No.	Type No.
M20 x 1,5 cable gland, ATEX	CG-912004	ADL1F-6
M20 x 1,5 cable gland, ATEX	CG-816679	ADE1F-4
M20 x 1,5 cable gland, ATEX	CG-816609	ADE1F-6
1/2" NPT cable gland ATEX/CSA US, 180°C	403 042	A3LF/16 1/2 NPT
Stainless steel nut fo flange	M18 x 1,5	
Spanner tool	DIN 1018A AMF 80-90 mm	
Ring magnet OD 33	201 542-2	
<u>Sensors with Analogue, Start/Stop or CANbus output:</u>		
6 pin female connector M16	370 423	
6 pin female connector M16 with 10 m PUR-Cable	370 423 / 10m 530 052	
<u>Sensors with SSI output:</u>		
7 pin female connector M16	370 624	
7 pin female connector M16 with 10 m PUR-Cable	370 624 / 10m 530 052	
HPH rotation adapter for M18, M30x1,5	RTA-M18	
HPH rotation adapter for 3/4" UNF; 1 1/16	3/4" UNF; 1 1/16-2	



**HPH Rotation Adaptor**

This adaptor allows you to adjust the position of the side opening when the HPH Housing is mounted in a cylinder. Pressure tested to 600 bar/8400 psi.

RTA-M18 is for use with the standard M18 housing thread and has a M30x1,5 mounting thread and the RTA-3/4" UNF is for use with the 3/4" UNF housing thread and has a 1 1/16" UNF Mounting thread.