

# High Pressure Housing

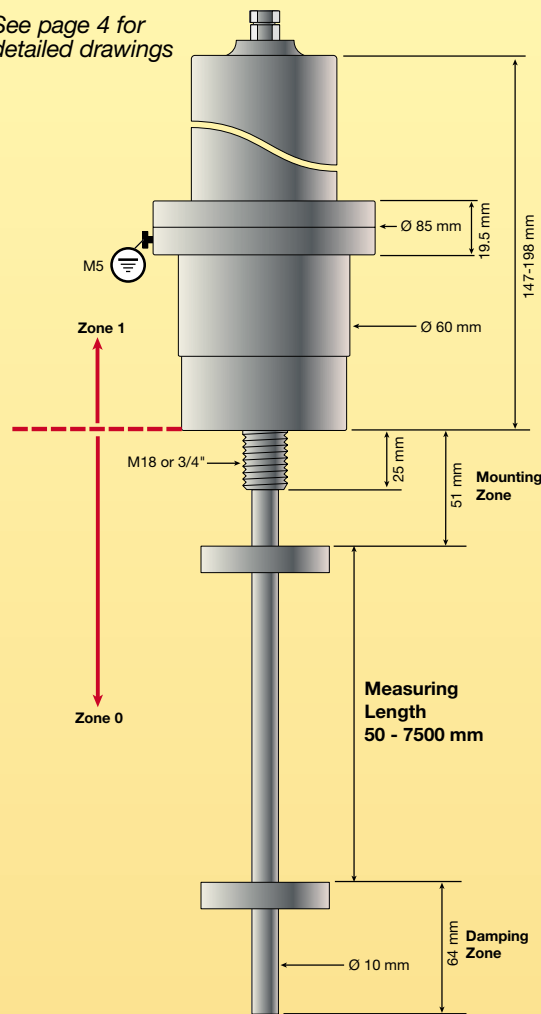
For Temposonics R-series position sensors



**SUMMIT**  
ELECTRONICS



See page 4 for detailed drawings



## Precision Position Measurement High Pressure Housing

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



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

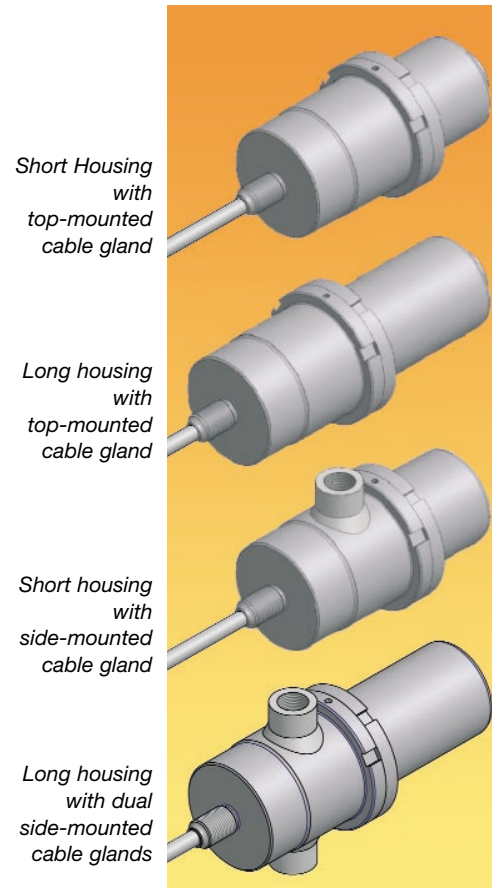
This housing is made to fit Temposonics R-series sensors with analog and digital outputs as well as the S-series ServoSensor™. Both fixed cable and connector versions can be used. When using a standard sensor in this housing you get a cost efficient solution for use in hazardous locations which also 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 - 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 rugged applications with high humidity and aggressive gases.

### Technical Data:

Protection type: ATEX:	0539  II 2G EEx d IIC T5/T6 Demko 02 ATEX 132128X In accordance with EN 50018, 2000E EN 50014, 1997E incl. A1 and A2
	Class 1, Division 1, Groups A, B, C, and D hazardous locations, temperature code T5 As to fire, electrical shock and explosion hazards only UL certificate no. 2PD0 In accordance with UL 1203 standard
Material:	Only with ATEX or UL approved cable glands 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:	R-series analog R-series Profibus R-series CANBUS R-series SSI R-series DeviceNet S-series ServoSensor™
Mounting Flange:	M18 x 1,5 or 3/4"-16UNF-3A
Pressure rating:	350 Bar continuous
Peak Pressure:	530 Bar
Magnet type:	GF plastic with permanent magnet
Level Measurement:	Float on request



## Ordering information:

Type number code:

HPH-XXXX-XXXX-X

Choose a design combination from the chart below.

Measuring length (see drawing on opposite side)

Approved or **N**on-approved version:

Example: Approved short housing with M18 mounting threads and one side mounted cable gland with M20 threads and a measuring length of 650 mm:

**HPH-0900-0650-A**

## Accessories

Item No.

M20 x 1.5 Cable gland, ATEX	3-15 mm cable diameter, nickel plated brass	CG-912004
M20 x 1.5 Cable gland, ATEX	4-8.5 mm cable diameter, stainless steel	CG-816679
M20 x 1.5 Cable gland, ATEX	8.5-16 mm cable diameter, stainless steel	CG-816609
316 L Steel nut for flange		M18 x 1.5
Spanner tool		DIN 1018A AMF 80-90 mm
6 PIN DIN connector, Straight		HPH 6 DIN
6 PIN DIN connector, Straight w. 10 m cable		STCO9131D/10XMSABIX
HPH Rotation Adaptor for M18, M30x1.5		RTA-M18
HPH Rotation Adaptor for 3/4"UNF, 1 1/4"UNF		RTA-3/4"UNF

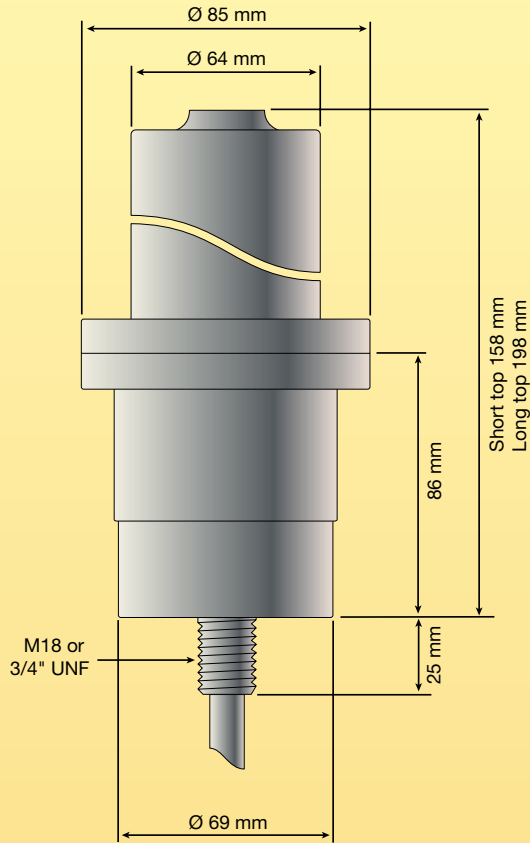
## Combination chart:

Bottom / Top	 M18	 3/4" UNF	 M20	 1/2" NPT	 M20	 1/2" NPT
Approval	ATEX only		ATEX only	ATEX, UL and cUL	ATEX only	ATEX, UL and cUL
 M20	0100	0600				
 Standard			0900	1000	1300	1400
 M20	0300	0800				
 Standard			1700	1800	2100	2200
Type	Standard		Special order in quantities	Standard	Special order in quantities	

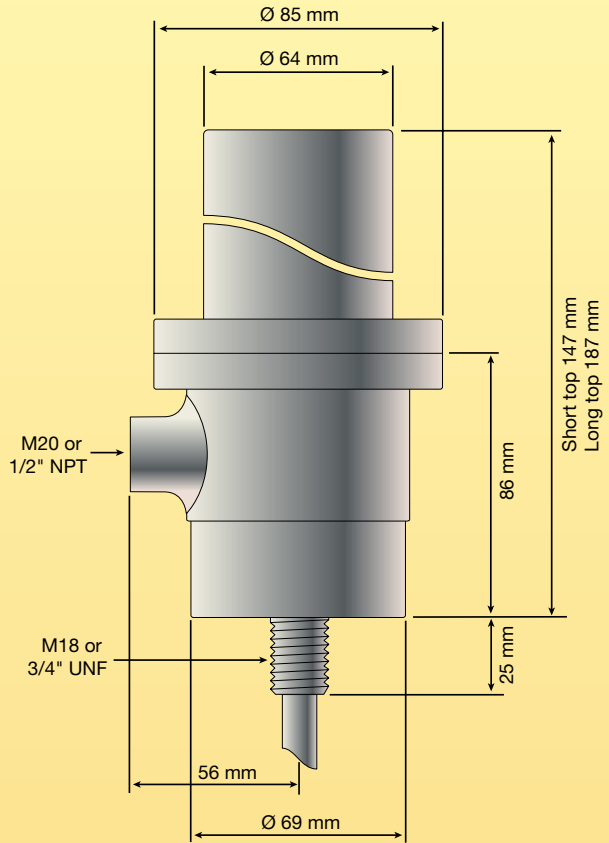
The long top is needed for Profibus sensors



**Top mounted cable gland**



**Side mounted cable gland**



**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 1/4"UNF mounting thread.

Your local representative

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