Instructions for use

Introduction

This **H**igh **P**ressure **H**ousing is **UL and cUL approved** for use in **hazardous locations** with Temposonics® position sensors.

The 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, the G-series sensors with analog and start/stop outputs, the L-series Start/Stop sensor as well as the S-series ServoSensor™. Both integral 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.

Safety Instructions

The sensor must only be used according to the UL Classification no. 2PD0
See product name plate for actual approvals.

To reduce risk of ignition in hazardous atmospheres, disconnect the equipment from the supply circuit before opening.
Keep assembly tightly closed when in operation.
For use according to the UL-classification, conduit seals must be installed within 18" of the enclosure.
Must be connected to a Class 2 power supply

The housing parts must be kept as one unit. They are not interchangeable with parts from similar housings.

Only tools applicable for use in explosive atmosphere must be used.

When mounting the rod in “ZONE 0” it is necessary to prevent any leakage between “ZONE 0” and the surrounding environment.

The sensor house must be connected to an equipotential bonding system or an earthing system.

Manufactured by:

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Manual revision date: 2007-12-18

Technical data:

Approved sensors:	R-series analog R-series Profibus R-series CANBUS R-series SSI R-series DeviceNet S-series ServoSensor™ L-series Start/Stop G-series analog G-series Start/Stop

Housing:
Protection type:

Design combinations 1000, 1400, 1800 and 2200 only.
Class 1, Division 1, Groups A, B, C, and D Hazardous locations,
As to fire, electrical shock and explosion hazards only
UL certificate #: 2PD0
In accordance with UL 1203 standard

Material:	Stainless steel ANSI 316 L (standard no1.4404)
Opening thread:	½" NPT
Ingress protection code:	IP 68

Rod:

Material:	Stainless steel AISI 316 L (standard no. 1.4404)
Mounting flange:	¾"–16UNF–3A
Pressure rating:	350 Bar (continuous)
Peak pressure:	530 Bar
Magnet type:	GF plastic with permanent magnet
Level measurement:	Float on request

Electrical specification:

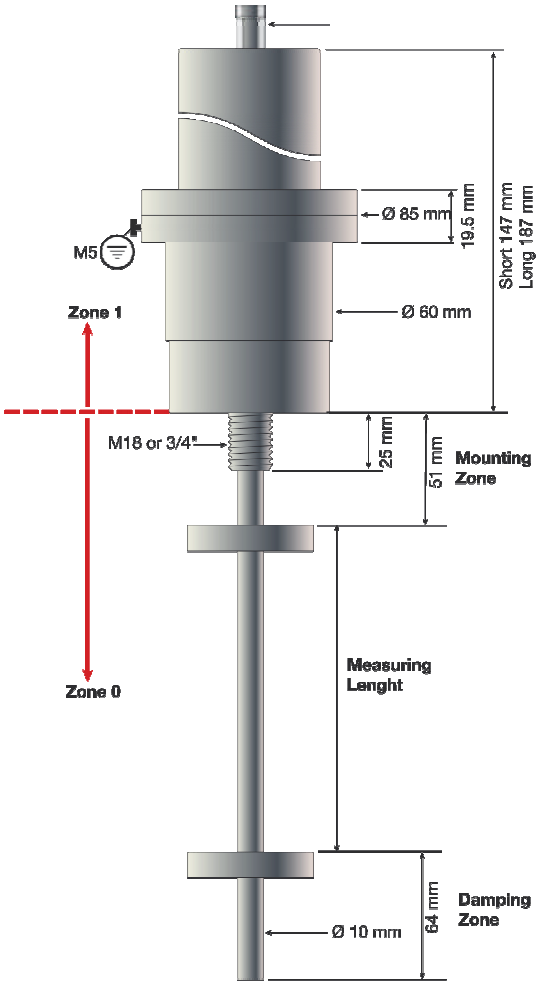
Supply Voltage:	24VDC / 150mA maximum, ServoSensor™ relay contacts 3.6A maximum
Operating temperature:	-40°F to 140°F (-40°C to +60°C)

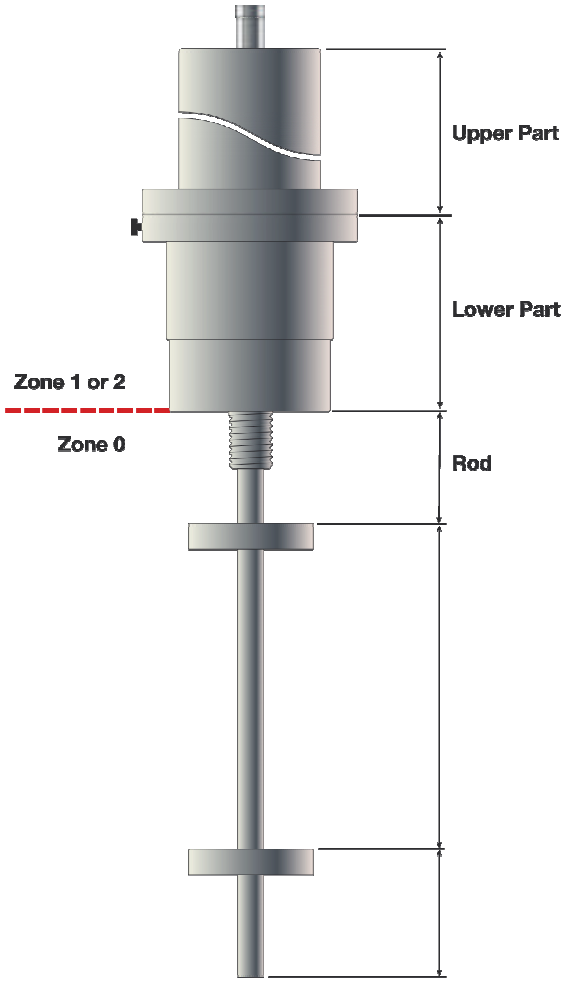
See the data sheet for the specific type of sensor.
Cable must be specified for use in the relevant environment

Maintainance & Service: The housing is maintenance free. If the position sensor inside gets defective, open the housing and replace the sensor and close it again according to the description in this manual.
Replace only with approved sensors listed above.

Accessories

DIN1018A AMF 80-90mm	Spanner tool for 80-90 mm diameter
HPH6 DIN	6 pin DIN connector, Straight
HPH6DIN-10MKFPUR25	6 pin DIN connector with 10m cable

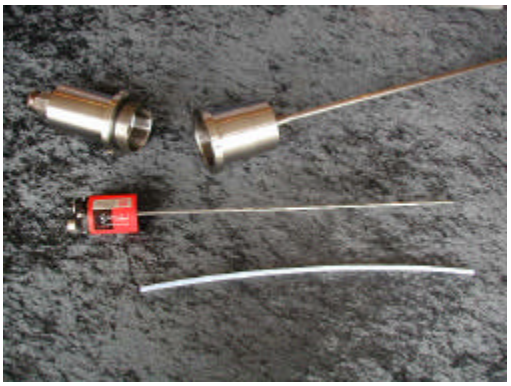




Mounting description:

1.
Open the housing by turning the top counter clockwise. When opening after a sensor is installed, it is very important to completely loosen the cable gland in order to protect the cable against twisting and physical damage.

2.
Remove rod or profile from the sensor. Separate the plastic tube from the sensor.



3.
Measure the length of the plastic tube.

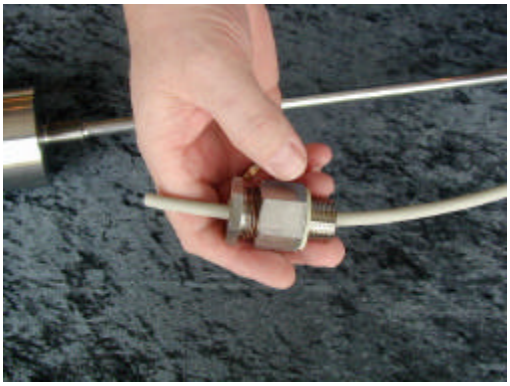
4.
If the plastic tube is longer than the total length of the rod on the HPH-housing measured from the flange to the end of the rod you must cut off the excess.

Top-mounted opening (non-approved versions only) :

5.
Insert the sensor and the plastic tube into the rod of the HPH-housing. Be careful that both ends of the plastic tube are circular and free of burr and surplus material.

6.
Mount the sensor in the HPH-housing.

7.
Insert the cable through the gland



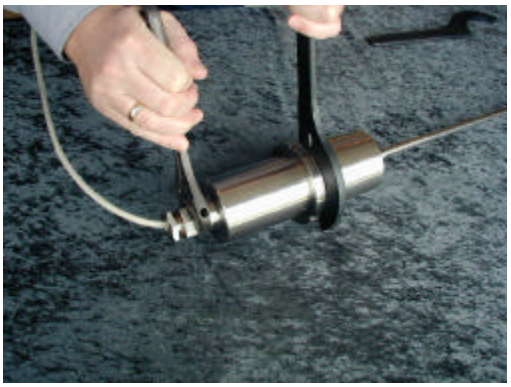
8.
Insert the connector through the top

9.
Connect to the sensor and insert a bag of Desiccant in the top

10.
Assemble the top and bottom turning clockwise

11.
Tighten firmly until the top and bottom flanges come together.

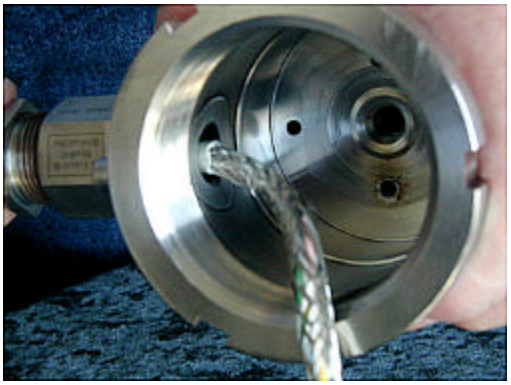
12.
Tighten gable gland according to the manufacturer's specifications.



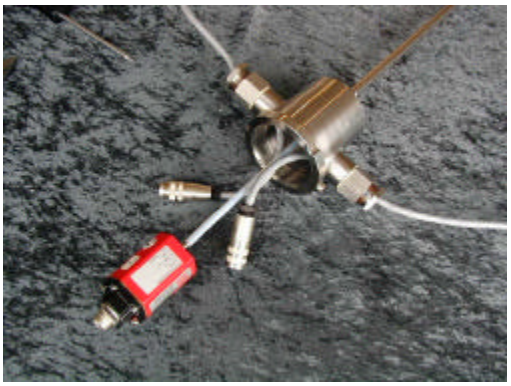
Side mounted opening(s)

13.
Enter the cable through the opening without tightening.

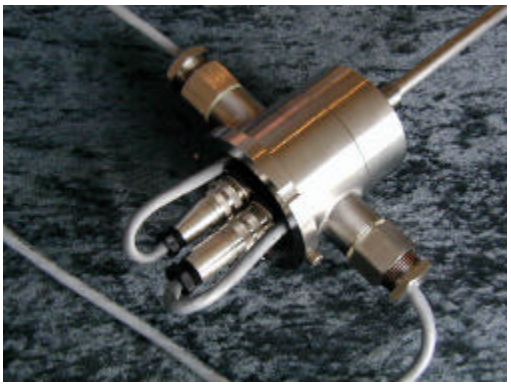
14.
For cable sizes larger than 1/4" or very rigid cables, you may need to remove the outer insulation jacket from inside the cable gland to the connector.



15.
Insert and fasten the sensor.



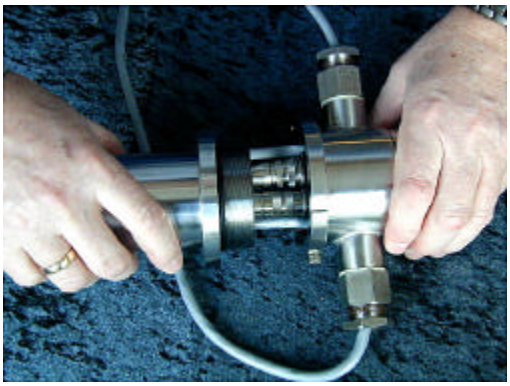
16.
Make the connections



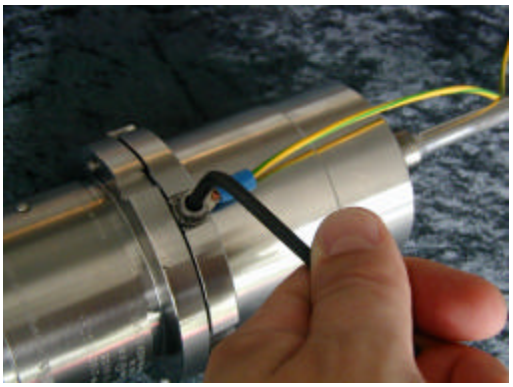
17.
Insert a bag of Desiccant in the top

18.
Assemble the top and bottom turning clockwise and tighten firmly until top and bottom flanges come together. (see fig. 11)

Mount the conduit according to UL 1203



19.
Mount the grounding cable.



20.
Tighten the lock screw with min. 1.5Nm torque