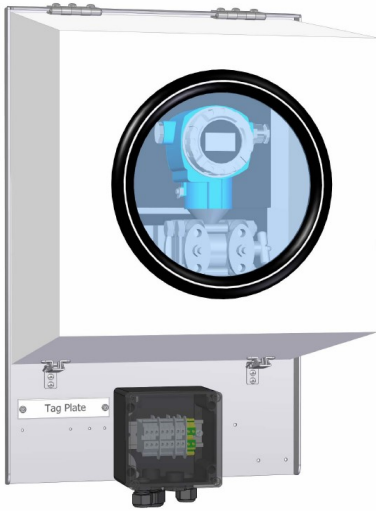


Model PS-1



Design Features

- Compact Design
- Integral Hard PUR 30 mm insulation shell with very high insulation value.
- Extends life of field equipment
- Stainless Steel Enclosure w/epoxy coated cover
- IP65 Ingress Protection Class
- Anti-static acc. EN 50014 $<10^9 \Omega$
- Operation temperature -70°C to $+90^{\circ}\text{C}$.
- 320x390x450(610*) mm (DxWxH) *mountingplate

Description

The Multi Instruments Protection System PS-1

The Multi Instruments Instrument protection systems fulfill the need for low cost and very compact full stainless steel instrument housing without quality compromises and complying to industrial standards. The easy snap locks allow quick opening and the prop stay ensures maximum access of the instrument inside.

A very high quality integral 30 mm hard PUR insulation shell allows instruments to survive very harsh environments with only minimal power consumption.

An optional round safety glass window even allows visibility to indicators, without opening the cover.

Added Value

To ensure "Plug-and-Play" installation on-site we specialize in custom instrument hookup services.

Your (free issue supplied) instrument(s) will be fitted onto the appropriate manifold, stainless steel mounting plate and together with other requested options completely assembled, tagged and tested to your specifications.

Options

- Electrical manifold heaters EEx
- Safety Glass Window ($\varnothing 210$ mm).
- Various types Stainless Steel mounting plates for all types of MI and third party manifolds
- Heater Connection box
- Process Connector Insulation cover (IK-1 & IK-2)
- Thermostatic manifold process heater control

PS-1 Open



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Model PS-1

Model selection guide

PS1

Model Description

- PS1 Standard Version
- PS1-D Dual Version

Option Codes

- SW Safety Glass Window 210 mm
- HB Heating Connection Box
- HE3 EEx Contact Heater 48W (T3)
- HE4 EEx Contact Heater 29W (T4)
- HE3C EEx Contact Heater 48W (T3) (CSA C/US)
- T1 Tagplate (1 line)
- T2 Tagplate (2 lines)

Remarks

If instrument specific manifold openings are needed please specify the instrument model to be fitted together with the (Multi Instruments) manifold model code. For further options like heaters, available mounting plates and other accessories we like to refer you to the specific datasheets on these products in this documentation.

Body Enclosure K-Value

$$K_{PS1} = 0,736W / (m^2 * K)$$

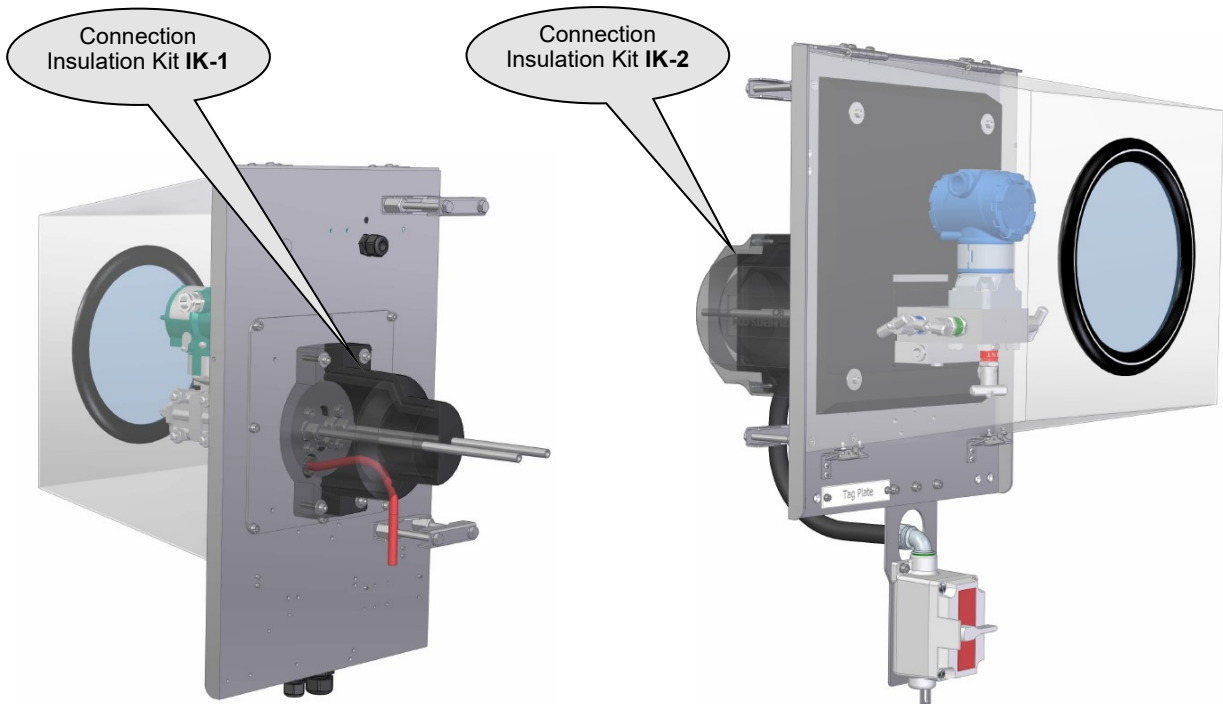
Sample Calculation for PS1 Enclosure (55°C delta without thermal loss avg 20%)

$$P_{heater} = Surface_{PS1} * K_{PS1} * \Delta T$$

$$P_{heater} = 0,8 * 0,736 * 55 = 32,4W$$

Insulated All the Way

PS1 Enclosure Drawing



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