Introduction

Parker Instrumentation provide a range of rugged enclosures for field-mounted process instruments. Three sizes of enclosures are available for housing one, two or three process instruments. These enclosures are supported by an assembly service that will provide them ready for field use - with manifold and tubing connections for pressure, flow, temperature or other common process variable instruments, and any accessories required. Together, the enclosures and support service provides users with a means of simplifying instrumentation projects.

Three enclosure sizes in the new PES range are available: with widths of 49, 58 or 69cm - offering mounting space suitable for one, two or three instruments/transmitters respectively, plus a manifold and connections to the instrumentation tubing, and an electrical heating element or steam heat tubing.

The CPS enclosures are fabricated from tough GRP (glass reinforced polyester). Each size variant employs the same basic design with hinges that allow the top to open extensively, providing complete access from the front right down to the floorline, as well as excellent access from both sides and above - for easy commissioning and maintenance. Process connections may be routed either through the base or the rear of the enclosure - for application flexibility. The front of the instrument includes a large window made from polycarbonate or laminated glass.

Parker Instrumentation will supply enclosures fully assembled: pre-fitted with a manifold which allows user to simply bolt the instrument into place, or as a finished unit complete with the instrument (free issued by the customer) and/or other equipment assembled to the customer's specifications. All commonly required manifold types are available off-the-shelf, including two-, three- and five way designs.

A wide choice of accessories is available to customise the enclosure for individual applications, including insulation and a range of explosion-proof heaters - approved to international standards including IP68, NEMA 4X and EEx e II.

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Visit us on the web at www.parker.com/ipd
Specification

Enclosures
Parker instrument enclosures are made of long glass fibre reinforced polyester (GRP) in sheet moulded compound design. This high-tech material has many advantages:
• strength that almost matches stainless steel (non-reinforced plastic material has approx. 100 times less stability)
• the weight of stainless steel is 4 times greater
• by increasing wall thickness and optimum fibre alignment the enclosure can be made with extra reinforcing at the edge
• Corrosion-free
• Excellent chemical resistance

Heaters
Parker offers the widest selection of explosion-proof heaters worldwide.
• ATEX/CENELEC approvals for Europe
• CSA/NRTL approvals for America
• GOST approvals for the Russian Federation and many other national certificates, e.g. Japan, Czech Republic etc.
• Providing freeze protection
• Installation in a horizontal or vertical position
• Choice of many different wattages
• Self-limiting or with thermostat in the connection cable allowing for quick and easy installation
• Fully sealed with silicone, protection to IP 68, reliable even in the harshest conditions
• Low thermal stress for long life
• Optional failure alarm

Instrument side, outlet, flange connections: are standard for direct mount manifolds with machined grooves for PTFE seal rings. Optional DIN sealing groove arrangement are also available. Remote style manifolds are provided as standard with 1/2" NPT female outlet connections (alternative thread forms etc. are available). Flanged outlets are positioned on 54mm/2.125” centres. (56/57mm options are available). Manifolds for 3051 style transmitters are available as standard.

Functional colour coding:
RED = Drain/vent/test
BLUE = Isolate/block
GREEN = Equalize

Manifold to transmitter mounting: all direct mount manifolds are provided with 4 off 7/16 UNF x 1.625” high tensile zinc plated carbon steel bolts. Bolt holes are standard on 54mm/2.125” centres. Optional St. St. bolts are available.

Manifold base/bracket mounting: all manifolds are provided with bracket mounting holes. This provides the user with the opportunity to bracket mount the instrument allowing installation to take place without the instrument and to give full mounting support in the event of Instrument removal.
Static Gauge and Absolute systems

General View

Temperature Switch TS (in cable)
Junction Box
GRP Mounting plate
Mounting Bracket
Base Plate
Cable Guard M20x1,5
Mounting Hub MH87 (for 2" pipe stand)
Vent Pipe

ISOPASS Insulation adapter
MINITHERM Conduction heater
2 Valve Manifold
Transmitter
Adapter

Front view

Side view

Top view (without cover part)

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Differential Pressure Systems

General View

Dia Box 87
Window
TAG Label
Clasp
Lid Propstay
Transmitter
5 Valve Manifold

Base Plate
Vent Pipes
Process Pipe (buyers scope)

Dummy plug
Mounting Hub MH87 (for 2" pipe stand)

Front view
Side view
Top view (without cover part)

Cable Gland M20x1,3

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Instrument Enclosures, Cabinets and Shelters

Specials

Parkers full range of Enclosures are complimented with a range of specials that can be requested in addition to the standard offering such features as multiple installations, different box design, customer specified tube diameters, exotic materials, customised heater design (up to 160°C electrical and steam), customised temperature controllers and tube bundles. For any of these options please contact your local Parker Instrumentation sales office or distributor.

Selection Guide

Is base or rear entry required?

Base

Is the application gauge or differential?

Gauge

Are you quoting In-line or flange Style?

In-Line

Ranged (must be H style flange)

Is internal heating required?

No

Refer to drawing DS1102

Yes

Refer to drawing DS1104

Differential (must be H style flange)

Rear

Is the application gauge or differential?

Gauge

Are you quoting In-line or flange Style?

In-Line

Ranged (recommend Coplanar style flange)

Is internal heating required?

No

Refer to drawing DS1105A-NH

Yes

Refer to drawing DS1105

Differential (recommend Coplanar style flange)

Is internal heating required?

No

Refer to drawing DS1107-NH

Yes

Refer to drawing DS1107

Yes

Refer to drawing DS1105

Refer to drawing DS1105A
About Parker Hannifin Corporation
Parker Hannifin is a leading global motion-control company dedicated to delivering premier customer service. A Fortune 500 corporation listed on the New York Stock Exchange (PH), our components and systems comprise over 1,400 product lines that control motion in some 1,000 industrial and aerospace markets. Parker is the only manufacturer to offer its customers a choice of hydraulic, pneumatic, and electromechanical motion-control solutions. Our company has the largest distribution network in its field, with over 7,500 distributors serving nearly 400,000 customers worldwide.

Parker's Charter
To be a leading worldwide manufacturer of components and systems for the builders and users of durable goods. More specifically, we will design, market and manufacture products controlling motion, flow and pressure. We will achieve profitable growth through premier customer service.

Product Information
North American customers seeking product information, the location of a nearby distributor, or repair services will receive prompt attention by calling the Parker Product Information Centre at our toll-free number: 1-800-C-PARKER (1-800-272-7537). In Europe, call 00800-C-PARKER-H (00800-2727-5374).

Insert CD into drive and follow the read-me file
## Parker Instrumentation Sales & Service Locations

Visit [www.parker.com](http://www.parker.com)

### Europe - Call free of charge 00800 27 27 5374

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### Sales Offices

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