



Instrument Enclosures, Cabinets and Shelters

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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.

Contents

Page 2	Introduction and Contents	
Page 3	Specification	
Page 4	Technical Drawings	
Page 5	Technical Drawings continued	
Page 6	Enclosure Specials/Selection Guide	
Page 7	Selection Software	

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

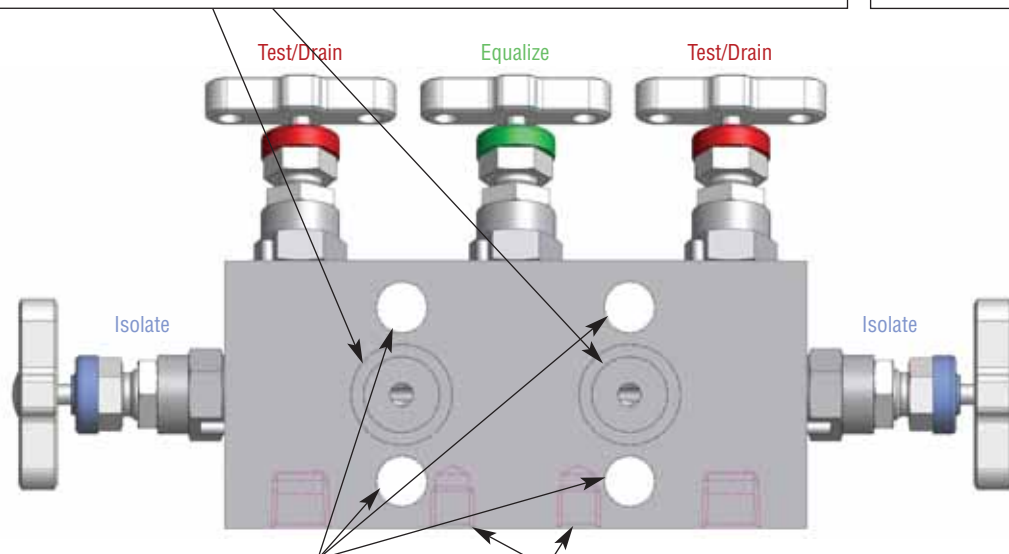
Instrument side, outlet, flange connections: are standard for direct mount manifolds with machined grooves for PTFE seal rings. Optional DIN sealing groove arrangement are also available. Remote style manifolds are provided as standard with 1/2" NPT female outlet connections (alternative thread forms 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

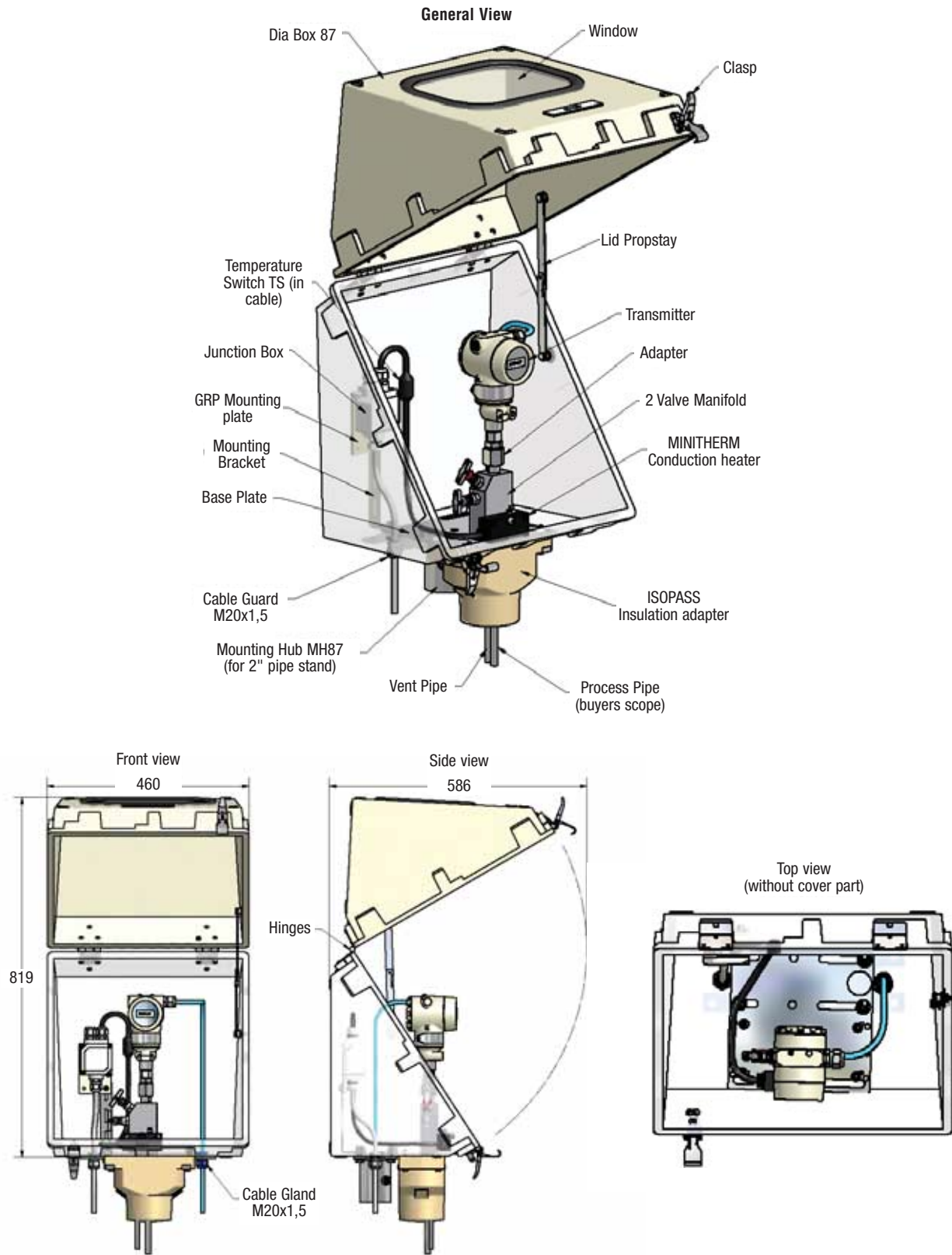
GREEN = Equalize



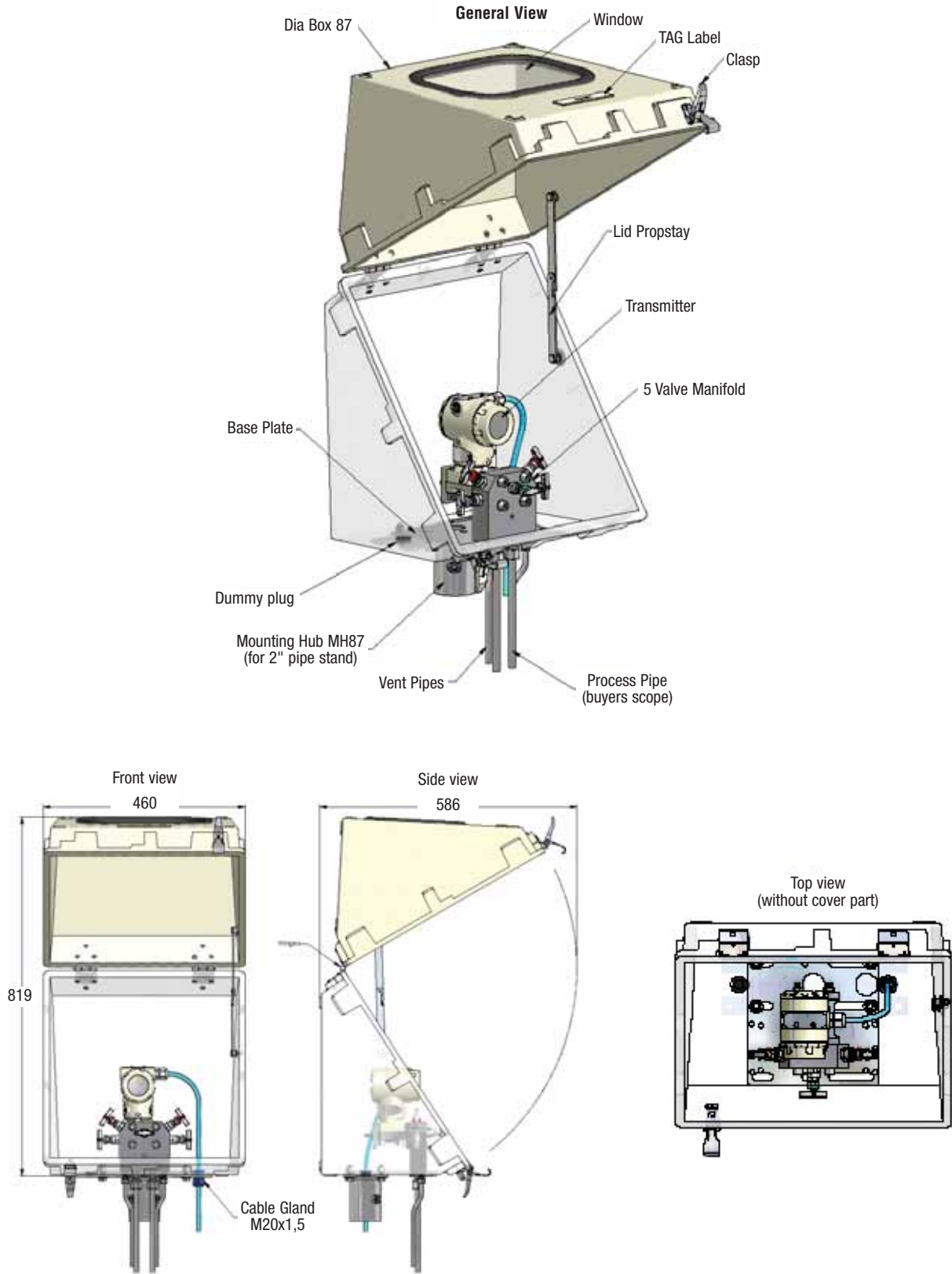
Manifold to transmitter mounting: all direct mount manifolds are provided with 4 off 7/16 UNF x 1.625" high tensile zinc plated carbon steel bolts. Bolt holes are standard on 54mm/2.125" centres. Optional St. St. bolts are available.

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



Differential Pressure Systems



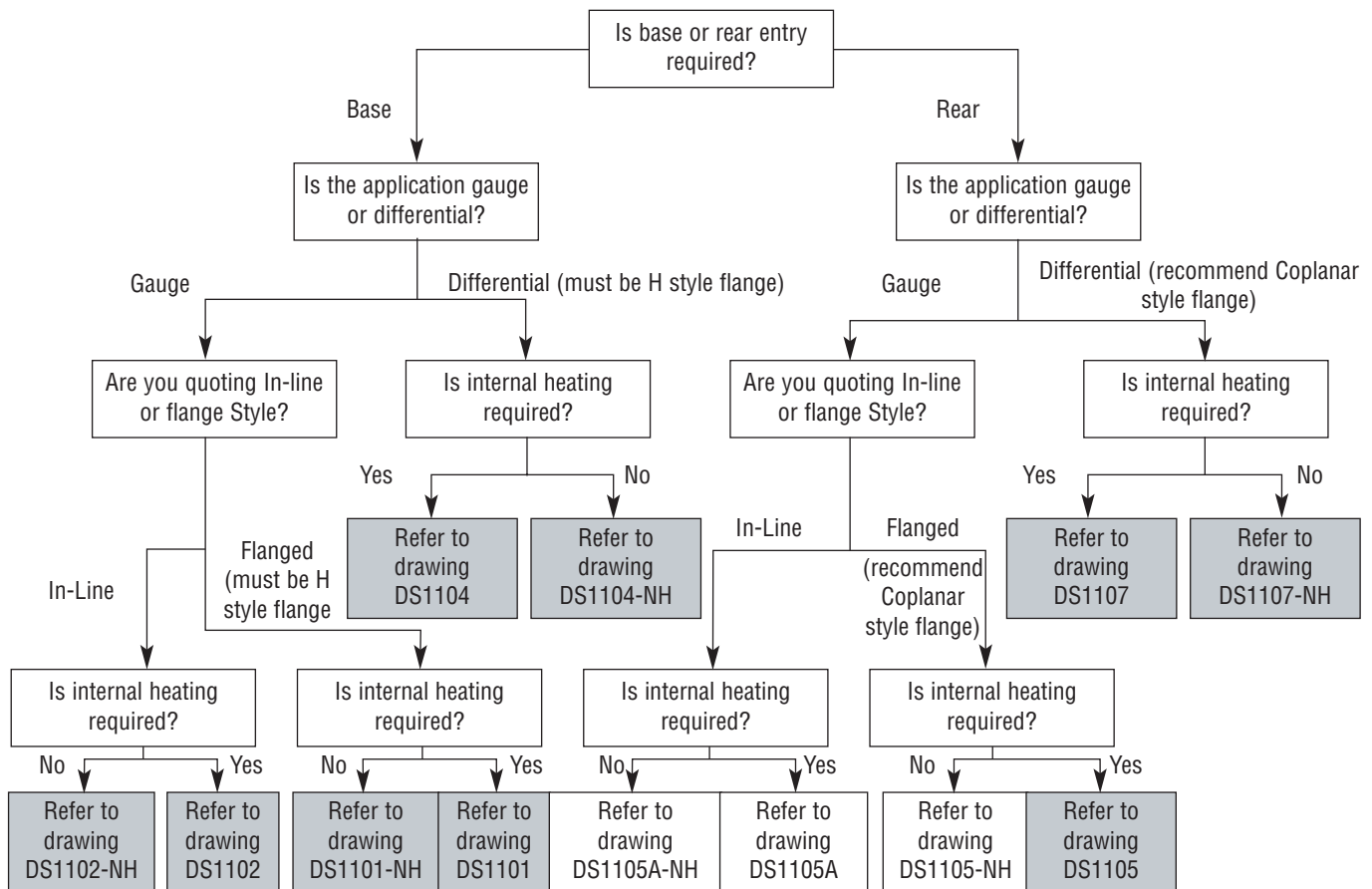
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Specials

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



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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.



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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).

The Aerospace Group is a leader in the development, design, manufacture and servicing of control systems and components for aerospace and related high-technology markets, while achieving growth through premier customer service.



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The Filtration Group designs, manufactures and markets quality filtration and clarification products, providing customers with the best value, quality, technical support, and global availability.



The Instrumentation Group is a global leader in the design, manufacture and distribution of high-quality critical flow components for worldwide process instrumentation, ultra-high-purity, medical and analytical applications.



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