Pressure Transducers and Transmitters

ASIC ‘Performer’

25, 60, 100, 250, 400 and 600 bar

Brochure: FDHB240UK
March 2007
Pressure Transducers and Transmitters

ASIC ‘Performer’

Applications for the ASIC Performer

- Fork lift trucks - braking and load systems.
- Truck mounted cranes - load safety systems.
- Earth moving machinery - hydraulic gearbox control.
- Racing car - gearbox, fuel, cooling and suspension systems.
- Water usage systems - pressurised systems for industrial and hi-rise usage.
- Forest Machinery - felling and logging.
- Paper mills - speed control and weighing systems.

The Parker Filtration ASIC Performer Pressure Transducers and Transmitters.

The ASIC Performer offers a wide range of pressure sensors for mobile or industrial applications. These sensors have been designed for the requirements of industrial instrumentation systems. Accordingly, the housings and all components in contact with the medium are made of stainless steel. Thus giving compatibility with a wide range of media. There is a choice of two plug connectors of either DIN or M12. There are six measuring ranges available and a choice of outputs in the form of either voltage or current signals. Sensors with output signals from 4...20 mA are available in two wire technology.

The built-in voltage regulator allows the sensors to be operated with a supply voltage of 12-36/9-36 Vdc. All sensors are manufactured in our own production facility, typical of Parker Hannifin’s continued commitment to flexibility and quality.

A comprehensive range of Pressure Transducers and Transmitters are available from Parker Filtration.

- One-piece body and diaphragm machining ensures long-term product stability.
- All stainless steel construction.
- 6 transducer pressure ratings with 0-5Vdc and 1-6Vdc outputs.
- 6 transmitter pressure ratings with a 2-wire 4-20mA output.
- Microdin din plug and M12 connector options.
**Specification**

**Pressure ranges:**
25, 60, 100, 250, 400, 600 bar.

**Pressure Tolerance Specifications:**

<table>
<thead>
<tr>
<th>Rating</th>
<th>Maximum Overload</th>
<th>Maximum Burst</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pressure</td>
<td>Pressure</td>
</tr>
<tr>
<td>25</td>
<td>x 6.0 (150 bar)</td>
<td>x 20.0 (500 Bar)</td>
</tr>
<tr>
<td>60</td>
<td>x 2.5 (150 Bar)</td>
<td>x 8.0 (500 Bar)</td>
</tr>
<tr>
<td>100</td>
<td>x 2.5 (250 bar)</td>
<td>x 5.0 (500 Bar)</td>
</tr>
<tr>
<td>250</td>
<td>x 4.0 (1000 Bar)</td>
<td>x 7.0 (1800 Bar)</td>
</tr>
<tr>
<td>400</td>
<td>x 2.5 (1000 Bar)</td>
<td>x 4.5 (1800 Bar)</td>
</tr>
<tr>
<td>600</td>
<td>x 1.5 (1000 Bar)</td>
<td>x 3.0 (1800 Bar)</td>
</tr>
</tbody>
</table>

**Vibration resistance:**
IEC 60068-2-6:
+/- 5mm/10Hz...32Hz
200m/s² / 32Hz...2kHz

**Installation:**
Spanner size 22A/F.
Max. (recommended) tightening torque = 30Nm.

**Weight:**
200 - 230g

**Lifespan:**
10 million cycles

**Thread Forms**

G1/4 (¼BSP) with ED seal.
All thread forms and sensor interface are made from 1.4301 stainless steel.
Non standard threads - contact Parker CMC

**Electrical**

**Supply voltage**
12 - 36Vdc
12 - 36Vdc
9 - 36Vdc

**Output**
0 - 5Vdc
1 - 6Vdc
4 - 20mA

**Transducer current draw** = <6mA

**Load impedance (ohm)** = >10K

**Output signal noise** = 0.1%FS

**Product Performance**

**Functional temp range:**
-40°C to +85°C

**Compensated temperature:**
-20°C to +85°C

**Stability:**
<0.1%FS/a (typ).

**Response time:**
= <1mS

**Wiring Information**

**Connector**
Industrial Micro Din 9.4mm

**Connector**
M12

**Installation Details**
Pressure Transducers and Transmitters

ASIC ‘Performer’

Ordering Information

Standard products table

<table>
<thead>
<tr>
<th>Product number</th>
<th>Description - pressure transducer</th>
<th>Model</th>
<th>Output</th>
<th>Pressure</th>
<th>Thread form</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTDVB2501B1C1</td>
<td>0 – 5 Vdc 250 bar /; BSP ED seal micro-din</td>
<td>PTD</td>
<td>VB8</td>
<td>250</td>
<td>1</td>
<td>B1C1</td>
</tr>
<tr>
<td>PTDVB4001B1C1</td>
<td>0 – 5 Vdc 400 bar /; BSP ED seal micro-din</td>
<td>PTD</td>
<td>VB8</td>
<td>400</td>
<td>1</td>
<td>B1C1</td>
</tr>
<tr>
<td>PTDVB2501B1C2</td>
<td>0 – 5 Vdc 250 bar /; BSP ED seal M12</td>
<td>PTD</td>
<td>VB8</td>
<td>250</td>
<td>1</td>
<td>B1C2</td>
</tr>
<tr>
<td>PTDVB4001B1C2</td>
<td>0 – 5 Vdc 400 bar /; BSP ED seal M12</td>
<td>PTD</td>
<td>VB8</td>
<td>400</td>
<td>1</td>
<td>B1C2</td>
</tr>
<tr>
<td>PTDVB0251B1C1</td>
<td>0 – 5 Vdc 25 bar /; BSP ED seal micro-din</td>
<td>PTD</td>
<td>VB8</td>
<td>25</td>
<td>1</td>
<td>B1C1</td>
</tr>
<tr>
<td>PTDVB0251B1C2</td>
<td>0 – 5 Vdc 25 bar /; BSP ED seal M12</td>
<td>PTD</td>
<td>VB8</td>
<td>25</td>
<td>1</td>
<td>B1C2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product number</th>
<th>Description - pressure transmitter</th>
<th>Model</th>
<th>Output</th>
<th>Pressure</th>
<th>Thread form</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTXB0251B1C1</td>
<td>4 – 20 mA 250 bar /; BSP ED seal micro-din</td>
<td>PTX</td>
<td>B</td>
<td>250</td>
<td>1</td>
<td>B1C1</td>
</tr>
<tr>
<td>PTXB0251B1C2</td>
<td>4 – 20 mA 250 bar /; BSP ED seal M12</td>
<td>PTX</td>
<td>B</td>
<td>250</td>
<td>1</td>
<td>B1C2</td>
</tr>
<tr>
<td>PTXB4001B1C1</td>
<td>4 – 20 mA 400 bar /; BSP ED seal micro-din</td>
<td>PTX</td>
<td>B</td>
<td>400</td>
<td>1</td>
<td>B1C1</td>
</tr>
<tr>
<td>PTXB4001B1C2</td>
<td>4 – 20 mA 400 bar /; BSP ED seal M12</td>
<td>PTX</td>
<td>B</td>
<td>400</td>
<td>1</td>
<td>B1C2</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Product number</th>
<th>Supercedes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P33PVCG2M</td>
<td>P33PVCG2M</td>
<td>2 meter PVC coated 4 core cable</td>
</tr>
<tr>
<td>P33PVCG5M</td>
<td>P33PVCG5M</td>
<td>5 meter PVC coated 4 core cable</td>
</tr>
<tr>
<td>P33PVCG10M</td>
<td>P33PVCG10M</td>
<td>10 meter PVC coated 4 core cable</td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Product configurator

<table>
<thead>
<tr>
<th>Product number</th>
<th>Output options</th>
<th>Pressure range (bar)</th>
<th>Thread form</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTD VB9 VB8</td>
<td>0 – 5 Vdc</td>
<td>025</td>
<td>0 – 25</td>
<td>B1C1</td>
</tr>
<tr>
<td>PTD SB9</td>
<td>1 – 6 Vdc</td>
<td>060</td>
<td>0 – 60</td>
<td>B1C2</td>
</tr>
<tr>
<td>PTX B</td>
<td>4 – 20mA (PTX only)</td>
<td>100</td>
<td>0 – 100</td>
<td>B1C2</td>
</tr>
<tr>
<td>N 0.5 – 4.5 ratiometric</td>
<td>200</td>
<td>0 – 200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M 91 – 149</td>
<td>400</td>
<td>0 – 400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M 600</td>
<td>0 – 600</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1: Part numbers featured with bold highlighted codes will ensure a ‘standard’ product selection.
Note 2: Alternate displayed part number selection will require you to contact Parker Filtration for availability.

Examples of standard part number product ordering

PTDV2501B1C1 0 – 5 volt output transducer
250 bar maximum pressure
1/4” BSP with ED seal
Industrial micro-din 9.4mm connector

PTXB0251B1C2 4 – 20mA output transmitter
25 bar maximum pressure
1/4” BSP with ED seal
M12 connector
(See accessories for IP68 protected cable)

PTDSB4001B1C2 1 – 6 volt output transducer
400 bar maximum pressure
1/4” BSP with ED seal
M12 connector
(See accessories for IP68 protected cable)