Series 22 offers a reliable cost effective solution for customers requiring medium to high quantities, of mass produced transmitters. Utilising the KELLER automatic brazing lines, this new technology allows crevice-free construction of the pressure port with no internal seals or O-rings, making possible high volumes at low cost. In the brass 22 M, a steel insert and a nickel diaphragm are brazed into a brass housing. In the steel 22 S, all parts are stainless steel (AISI 316 L). The glass feed-through header and silicon pressure sensor are welded to the steel insert underneath the oil filling.

The electronic circuit is fitted to the Packard plug. EMC-protection-components are mounted on the plug side, the amplifier on the sensor side. A flexible printed circuit "TAB" connects the sensor with the electronics. The transmitters are designed to have exceptionally good EMC ratings and operate over a wide temperature band, ideal for automotive, hydraulic and refrigeration control applications.

### Specifications

<table>
<thead>
<tr>
<th>Pressure Ranges</th>
<th>22 M (Brass)</th>
<th>22 S (Steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAA-22 M / PAA-22 S</td>
<td>5 10 20 30 bar</td>
<td>5 10 20 30 50 100 200 250 bar</td>
</tr>
<tr>
<td>PA-22 M / PA-22 S</td>
<td>5 10 20 30 50 100 200 250 bar</td>
<td></td>
</tr>
<tr>
<td>Overpressure</td>
<td>15 30 60 90 150 250 300 300 bar</td>
<td></td>
</tr>
</tbody>
</table>

### Pressure Ranges

- **PAA-22 M / PAA-22 S**
  - 5 10 20 30 bar
- **PA-22 M / PA-22 S**
  - 5 10 20 30 50 100 200 250 bar
- **Overpressure**
  - 15 30 60 90 150 250 300 300 bar

*PAA: Absolute. Zero at vacuum. PA: Sealed Gauge. 1000 mbar absolute*

### Type

<table>
<thead>
<tr>
<th>Type</th>
<th>2-Wire</th>
<th>3-Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
<td>8…28 V</td>
<td>5 V ± 0,25 V</td>
</tr>
<tr>
<td>Output</td>
<td>4…20 mA</td>
<td>0,5 V…4,5 V ratiometric</td>
</tr>
</tbody>
</table>

### Accuracy (Comp. Temp.-Range)

- ± 1 %FS (0…50 °C)
- ± 2 %FS (0…80 °C)
- ± 4 %FS (-40…125 °C)

### Isolation

> 10 MΩ @ 50 VDC

### Vibration / Shock

10 g / 5…2000 Hz, axes X/Y/Z / 20 g sine 11 ms

### Response Time

(0…99%) < 10 msec

### Pressure Connection

- 3/8”-24 UNF-2A (with O-ring*), 7/16”-20 UNF (female), G1/4” (with O-ring*)

### EMC

- EN 61000-6-1 to -6-4 / EN 61326-2-3

### Homologation

- E4-110R, E4-10R and E4-67R
  - (Homologation applies only to selected and authorised products)

### Protection

- IP67

### Weight

≈ 40 g

### Options

- Intermediate ranges, customer-specific housings, mating plug with cable

*oil and water resistant