The PR-20 and PR-20D are pneumatic pressure indicators designed to read pneumatic piezometers.

**Description**

The PR-20 portable readouts are mounted in a strong watertight case that contains all the circuitry for reading the transducers, and for refilling the self-contained nitrogen-gas cylinder.

The circuitry consists of the following:

- A nitrogen-gas filled cylinder with a maximum pressure of 14 000 kPa. The cylinder pressure is indicated by a pressure gauge.
- A pressure regulator, with the maximum regulated pressure adjusted in the factory to equal the upper limit of the main readout pressure gauge.
- An automatic constant low-flow control valve that gives precise and highly repeatable results (available only below the 0–1000 kPa measurement range).
- Either a 105 mm diameter test gauge (model PR-20) featuring an anti-parallax mirror, or a high-precision digital test gauge (model PR-20D).
- A high-flow circuit, for the quick filling of the transducer tubing leads.

**Key Features**

- Ranges up to 10 000 kPa
- Automatic flow control valve
- Easy to use
- High accuracy readings
- Portable

**Applications**

- The PR-20 is a pneumatic pressure indicators designed to read pneumatic piezometers.

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Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PR-20</th>
<th>PR-20D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>From 200 to 10 000 kPa</td>
<td>From 200 to 10 000 kPa</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.25% F.S.</td>
<td>±0.05% to ±0.25% F.S.</td>
</tr>
<tr>
<td>Resolution</td>
<td>Gauge-dependent</td>
<td>Gauge-dependent</td>
</tr>
<tr>
<td>Maximum pressure</td>
<td>1 × F.S.</td>
<td>1.5 × F.S.</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>−20 to +60°C</td>
<td>Gauge-dependent</td>
</tr>
<tr>
<td>Dimensions</td>
<td>45 × 30 × 18 cm</td>
<td>45 × 30 × 18 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>9 kg</td>
<td>9 kg</td>
</tr>
</tbody>
</table>

Readings and Interpretation

The same circuitry is used in both readout units. The only difference is in the test gauge: the PR-20 has a dial gauge while the PR-20D has a digital gauge.

Readings are taken once the transducer tubings are filled with gas and the pressure has stabilized.

Ordering Information

Please specify:

- Model
- Range