Pressure Transmitter and Reader
PT-RF Series

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GERMANY

Learn more at www.stauff.com
Various adaptors are available in addition to the pressure transmitters from the PT-RF series, allowing connection to the known STAUFF Test 20 system as well as installation in pipes.

Process Connection Adaptors for Pressure Transmitter PT-RF

### Technical Data

**Media Temp. (B04):**
- Suitable for liquid and gaseous media

**Ambient Temp.:**
- \(-25^\circ\text{C} ... +125^\circ\text{C}\)

**Operating Temp.:**
- \(-67^\circ\text{C} ... +85^\circ\text{C}\)

**Dimensions:**
- \(9 \text{ cm} \times 26 \text{ mm} / 2.32 \text{ in} \times 1.02 \text{ in}\)

**Housing:**
- Polyamide (glass fibre-reinforced)

**Temperature Behaviour:**
- Max. 0.2% FS per \(10^\circ\text{C}\)

### Order Codes

**Type PT-RF**
- **Order Code:**
  - **B00600**
  - **B04**

### Product Description

Thermo-bimetal testers can be used to measure the maximum or minimum pressure in process lines in a technical system with the desired pressure. The measurement range can be extended via an adapter or memory card to meet the required measurement range.

When the pressure transmitter is activated by the pressure knots, an internal measurement value is determined within \(0.5 \text{ sec}\), and the measured pressure value is transmitted to the display. The determined pressure value can be saved to the internal memory of the pressure transmitter or exported to the Reader for further evaluation.

**Technical Data**

- **Material:**
  - Stainless steel \(1.4301\)
  - RAL 5002 powder-coated (internal)

- **Dimensions:**
  - \(9 \text{ cm} \times 26 \text{ mm} / 2.32 \text{ in} \times 1.02 \text{ in}\)

- **Weight:**
  - \(25 \text{ g} / 0.55 \text{ lbs}\)

- **Temperature Range:**
  - \(-25^\circ\text{C} ... +70^\circ\text{C}\)

- **Connection:**
  - Straight fitting, size 1/4 NPT (N04)

- **Pressure:**
  - \(1.5 \text{ bar} / 21.7 \text{ PSI}\)

- **Power Supply:**
  - Power supply and current date and time.

- **Reading:**
  - Display for pressure transmitter \(0 \text{ bar} / 0 \text{ PSI} \)...

- **Signal Transmission:**
  - Via RFID technology

- **Validity Period:**
  - \(1 \text{ year} / 365 \text{ days}\)

- **Temperature Behaviour:**
  - Max. 0.2% FS per \(10^\circ\text{C}\)

- **Technical Data:**
  - **Display:**
    - Operating time approx. 6h (approx. 1800 individual measurements)

- **Operating Time:**
  - \(1.5 \text{ bar} / 21.7 \text{ PSI}\)

- **Storage:**
  - Not suitable for long-term storage

### Reader Type Reader-PT-RF

**Technical Data**

- **Type:**
  - Reader-PT-RF

- **Measurement:**
  - Start Measurement

- **Setting Up:**
  - 1. Switch on the reader using the start button.
  - 2. Position the tip of the antenna of the reader inside the test coupling STAUFF Test 20 (connection thread M16 x 2).
  - 3. Start the permanent measurement by holding down the function button once.
  - 4. Measurement to the pressure transmitter using RFID technology.

**Order Codes**

**Type PT-RF**
- **Order Code:**
  - PT-RF-SET
  - **2**
  - **400 / 600 / 900**

**Pressure Range / Version**
- **Pressure Range / Version of Pressure Transmitter**
  - **S**

**Spare Parts / Accessories**

- **Reader:**
  - Reader-PT-RF
  - **Order Code:**
    - PT-RF-SET
    - **2**
    - **400 / 600 / 900**

**Order Codes**

**Reader-PT-RF**
- **Order Code:**
  - **B04**

**Number of Measurements / Display**

- **Measurement ID**
  - Number of measurements

**PC Software**

- **PC Software:**
  - The software included with the delivery allows continuous communication of the absolute measured values from the measuring device to the HLK叁整合imated shortened code, e.g. Microsoft Excel®.

**Function Button**

- **Function Button:**
  - Start Measurement

**Measurement / Display**

- **Display:**
  - Upper measurement

**Order Codes**

**Series and Type**
- **PT-RF**

**Power Supply incl. country-specific adaptors**

**Power Supply incl. country-specific adaptors**

**Case, small**

**Case, medium**

**Case, large**

**Power Supply incl. country-specific adaptors**

**Spare Parts / Accessories**

**Spare Parts / Accessories**
### Electrical Data

The pressure transmitter from the PT-RF series is intended for use in processes such as hydraulics, pneumatics, and other fluid technology plants and systems. This means that the pressure transmitter requires neither maintenance nor external power supply as an internal maintenance function.

### Technical Data

**Type of Measurement**
- **Single-Value**
- **Simultaneous Measurement (Multi-Value)**

**Display**
- **Switch on the reader using the *** function key**
- **Start the permanent measurement by holding down the *** function key and a continuous measurement by releasing the *** function key**

**Power Supply**
- **USB 5 V / 250 mA (1.25 W)**
- **Galvanically isolated output**

**PC Software**
- The software included with the delivery contains instructions for the setup and operation in the FL membrane interface (e.g., MesseBus).

### Product Description

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**Reader Type Reader-PT-RF**

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**Pressure Transmitter: Pressure Range and Version**

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<thead>
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<th>Version of Pressure Transmitter</th>
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<tr>
<td>0 ... 16 bar</td>
<td>000</td>
</tr>
<tr>
<td>0 ... 60 bar</td>
<td>001</td>
</tr>
<tr>
<td>0 ... 600 bar</td>
<td>002</td>
</tr>
<tr>
<td>0 ... 1600 bar</td>
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</tr>
<tr>
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<td>0 ... 1600 bar</td>
<td>007</td>
</tr>
<tr>
<td>2</td>
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**Process Connection Adapters for Pressure Transmitter PT-RF**

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## Electrical Data

- **Wetted Parts**

The reading device using wireless RFID technology is transferred to the pressure transmitter via the antenna of integrated into fluid technology plants and systems.