

Local Solutions For Individual Customers Worldwide



Pressure Transmitter and Reader of the PT-RF Series

Product Catalogue

Pressure Transmitter and Reader of the Series PT-RF

Originating and located in Werdohl in the German Sauerland region, we have become an internationally leading developer, manufacturer and supplier of pipework equipment and hydraulic components under the brand name STAUFF.

The STAUFF product range includes:

- STAUFF Clamps
- STAUFF Test
- Filtration Technology
- Diagtronics
- Hydraulic Accessories
 Valves
- Fluid Connectors

Decades of experience, highly-motivated and qualified staff, state-of-the-art manufacturing technologies and a foresighted management give us the reputation of being a competitive partner.

Our in-house laboratories carry out constant tests in line with international standards on all products. Certified in accordance with ISO 9001:2008 (Quality), ISO 14001:2004 (Environmental Protection) and OHSAS 18001:2007 (Occupational Health and Safety), our management system continually strives for perfection. Many of our products have been successfully tested and approved by several international organisations and institutes.

Our well-stocked warehouses and flexible production lines ensure prompt reactions and short delivery times.

Represented by a tight network of distributors and whollyowned manufacturing facilities, distribution bases and warehouses in 18 countries worldwide, we are close to you.

Our subsidiaries also supply additional retail products related to the fluid power industry, thereby offering a near-complete range of industry-specific key products.

Local Solutions For Individual Customers Worldwide.







The PT-RF series of pressure transmitters are an alternative solution for universal pressure measurements for fluid technology applications, which will provide benefits for system operators, maintenance personnel and repair technicians as well as for original equipment manufacturers.



The advantages resulting from the use of the new technology for system operators, maintenance personnel and repair technicians are clear: Measurements can be carried very easily, without extensive training and within a few seconds at the press of a button and then documented in a reliable process.

Unscrewing and re-installing pressure gauges or other measuring and display devices – practically a temporary opening of the system – is not required. Potential hazards for people, machines and the environment, for example from emitted residual oil in the test hose or leaks at the measuring point, as well as ingress of dirt into the system (e.g. in dusty environments) can be effectively excluded.

Original equipment manufacturers will also benefit from this new technology: If the pressure transmitters are installed at their factory already, the innovative technology can provide a competitive edge over alternative suppliers and open up specific advantages for the users, increasing the value retention of their own devices in the long term.

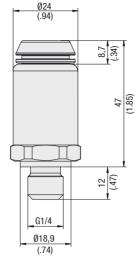
If the pressure transmitters are installed directly in the system or pipeline for permanent use, they protrude only slightly more than conventional hydraulic test couplings and meet the highest demands with regard to space requirements and weight.

www.stauff.con

Series PT-RF

Pressure Transmitter • Type PT-RF







B04

N04

Accuracy (±% FS*) max.

0.5

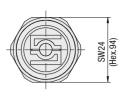
0,5

0,5

0,5

0,5

* FS = Full Scale



Process connection G1/4 (B04)

Signal transmission via RFID technology

Pressure Range

Pressure Range and Accuracies

Type of Measurement

Relative pressure

Relative pressure

Relative pressure

Relative pressure

Relative pressure

Temperature behaviour: max. ± 0,2 % FS* /10K (test condition 25 °C; 45 % v. F.)

Pressure Range and Accuracies

(bar/PSI)

0 ... 16

0 ... 232

0 ... 60

0 ... 870

0 ... 160

0 ... 5801

0 ... 600

0 0... . 400

0 . 8702

. 2320

Order Codes

(1) Series and Type

(2) Version

Version

B00016

B00060

B00160

B00400

B00600

Pressure Trans-

mitter PT-RF

Pressure Transmitter

Product Description

The pressure transmitters from the PT-RF series are integrated into fluid technology plants and systems permanently or temporarily using the appropriate process connection adapters. The energy required for a measurement is transferred to the pressure transmitter via the antenna of the reading device using wireless RFID technology. This means that the pressure transmitters require neither internal nor external power supply and are completely maintenance-free.

Technical Data

Wetted Parts

- Suitable for liquid and gaseous media

Materials

materiale	
Housing:	Stainless Steel 1.4305
Sealing (B04):	FPM (Viton®)
Cap:	Polyamide (glass fibre-reinforced)

Dimensions / Weight

Dimensions:	59 x 26 mm / 2.32 x 1.02 in
Weight:	80 g / .18 lbs

· Weight:

Temperature Range Medi

Media temp.:	-40 °C +85 °C / -40 °F +185 °F
Ambient temp.:	-40 °C +85 °C / -40 °F +185 °F
Storage temp.:	-55 °C+125 °C / -67 °F +257 °F

- Storage temp.:
- **Electrical Data**
- Sampling rate:
- Long-term stability:
- max. ± 0,25 % FS* /a Load cycles (10⁶): 10
- according to IEC EN 60770-1 Schock loading:
- Vibration loading: acc. to IEC 60068-2-6 (20 g)

acc. to IEC 60068-2-27 (30 g) 11ms

Protection Rating

1/4NPT

Process connection 1/4NPT (N04)

B04

B00600

3

PT

RF

Maximum

32

464

120

1740

320

4641

800

11603

1200

17404

Pressure (bar/PSI)

(3) Pressure Range

(4) Process Connection

Burst Pressure

(bar/PSI)

48

696

180

2610

480

6961

1200

17405

1800

26107

see table

G1/4

1/4 NPT

RF

IP67 protection rating: Dust tight and protected against splashing water

Accuracy

0.25

0,25

0,25

0,25

0.25

(±% FS*) typ.

Process Connection Adaptors for Pressure Transmitter PT-RF

typ. 250 ms / max. 400 ms

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.



SDA20-G1/4-C6F Adaptor for process connection G1/4 (B04) on test coupling STAUFF Test 20 (connection thread M16 x 2)



SRS-G1/4-***-VG-C6F Straight fitting with adaptor Note: Please replace *** with tube-Ø and series (L or S).



SMD20-1/4NPT-C6F Adaptor for process connection 1/4NPT (N04) on test coupling STAUFF Test 20 (connection thread M16 x 2)

Dimensional drawing: All dimensions in mm (in).

Reader • Type Reader-PT-RF



Product Description

The hand-held readers transfer the energy required for a measurement to the pressure transmitter using RFID technology. All that is required is a maximum distance of 1.5 cm / 0.6 in from the antenna to the tip of the pressure transmitter for the duration of the measurement

When the pressure transmitter is activated by the press of a button, a current measured value is determined within only 0.5 seconds and then immediately transmitted back to the reading device together with other relevant information and then output on the illuminated display and stored. Over 15,000 of these measurement sets can be stored in the internal memory of the device.

Technical Data

Material

Housing made of ABS

Dimensions / Weight

- Dimensions: 76 x 35 x 240 mm / 3.0 x 1.38 x 9.45 in 220 g / .49 lbs
- · Weight:

Measurements / Display

- in bar and PSI Pressure:
- Temperature: in °C and °F
- graphic, LED backlit Display:
- 55 x 46 mm / 2 17 x 1 81 in Visible area:
- Resolution:

Power Supply

Battery: Lithium Ion (3,7 V DC / 900 mAh) Operating time approx. 6h (approx. 1800 individual measurement)

128 x 64 Pixel

Type of Measurement

Start Measurement

1. Switch on the reader using the (b) function button.

During the brief start process, the charge state of the lithium ion battery (Battery) is shown on the display and the share of the currently occupied data memory (MemUsed) in percent as well as the current date and time.

2. Position the tip of the antenna of the reader inside the measurement range of the pressure transmitter and hold this position as long as possible during the entire measurement process.

Order Code

Reader-PT-RF

(1) Series and Type Reader

Standard option:

- Reader-PT-RE
- Manual and software on CD
- Quick guide
- USB 2.0 cable (1 m / 3.28 ft)
- 5 V DC / 1 A power supply incl. country-specific adaptors

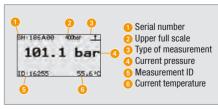
Temperature Range:

- -20 °C ... +70 °C / -4 °F ... +158 °F Ambient temp.:
- Storage temp.: -25 °C ... +60 °C / -13 °F ... +140 °F

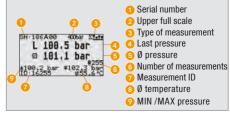
EMV:

Electrical Data / Interface

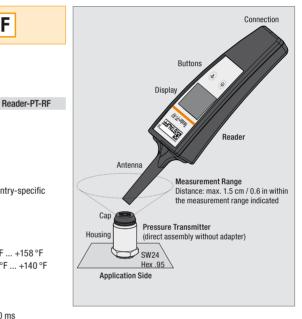
- typ. 250 ms / max. 400 ms Sampling rate:
 - Micro USB
 - EN 61326-1:2013
 - EN 300330



Display after successful individual measurement



Display after successful permanent measurement



PC Software

Set Up

The software included with the delivery allows transmission of the stored measured values from the reading device to the PC. subsequent evaluation and export, e.g. to Microsoft Excel®.

CE certified

- Interface:

Protection Rating

· IP65 protection rating: Dust tight and protected against water iets

3. Start the individual measurement by tapping the

3. Start the permanent measurement by holding down

The simplest way of recognising the successful start of a

symbol in the upper right-hand corner of the display.

4. End a continuous measurement by releasing the

permanent measurement is the change in the corresponding

The absolute number of the values determined as part of the

measurement process is shown below the current pressure.

Individual Measurement (Single Value)

Permanent Measurement (Multiple Values)

function button once.

the 💿 function button.

(function key.

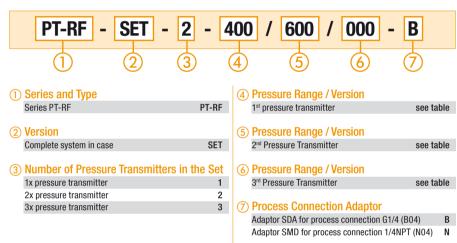
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Series PT-RF

Complete system • Type PT-RF-SET



Order Codes



Pressure Transmitter: Pressure Range and Version

Pressure Range	Version of Pressure Transmitter		
000	When ordering a complete system with one or two pressure transmitters, the pressure range for the		
	2 nd and 3 rd pressure transmitter is given as "000".		
016	Version pressure transmitter: B00016 (pres	sure range: 0 16 bar / 0	232 PSI)
060	Version pressure transmitter: B00060 (pres	sure range: 0 60 bar / 0	870 PSI)
160	Version pressure transmitter: B00160 (pres	sure range: 0 160 bar /	0 2320 PSI)
400	Version pressure transmitter: B00400 (pressure range: 0 400 bar / 0 5801 PSI)		
600	Version pressure transmitter: B00600 (pressure range: 0 600 bar / 0 8702 PSI)		
e.g.	400 (400 bar) 600 (600	bar)	000 (0 bar)



Complete system in case PT-RF-SET

Product Description

The PT-RF-SET complete system is compiled in different versions according to customer requirements. All complete systems are supplied in a handy carrying case containing individually shaped foam inserts for a maximum of 10 pressure transmitters and 10 process connection adaptors and offering space for the following components:

Standard Option

- 1x Reader-PT-RF
- up to 3 Pressure Transmitters PT-RF
- up to 3 Process Connection Adaptors SDA or SMD
- Ix Manual and Software on CD
- 1x Quick Guide
- 1x USB 2.0 cable(1 m / 3.28 ft)
- 1x Power Supply incl. country-specific adaptors

Pressure Range	Version of Pressure Transmitter		
000	When ordering a complete system with one or two pressure transmitters, the pressure range for the		
	2 nd and 3 rd pressure transmitter is given as " 000 ".		
016	Version pressure transmitter: B00016 (pressure range: 0 16 bar / 0 232 PSI)		
060	Version pressure transmitter: B00060 (pressure range: 0 60 bar / 0 870 PSI)		
160	Version pressure transmitter: B00160 (pressure range: 0 160 bar / 0 2320 PSI)		
400	Version pressure transmitter: B00400 (pressure range: 0 400 bar / 0 5801 PSI)		
600	Version pressure transmitter: B00600 (pressure range: 0 600 bar / 0 8702 PSI)		
e.g.	400 (400 bar)	600 (600 bar)	000 (0 bar)

Spare Parts / Accessories

Order Codes

Spare Parts / Accessories

(1) Spare Parts / Accessories

Case, small	Case-Reader-PT-RF	
Case, large	Case-PT-RF-SET	
5 V DC / 1 A power supply		
incl. country-specific	Charger-Set-Reader-PT-RF	
adaptors and USB 2.0 cable		
Adaptor for pressure transmit	ter (B04) SDA20-G1/4-C6F	
Adaptor for pressure transmitter (N04)SMD20-1/4NPT-C6F		
Straight fitting	SRS-G1/4-***-VG-C6F	
with adaptor	5115-017410-001	

Product Description

In addition to the Charger-Set-Reader-PT-RF which is available as a spare part, the Case-PT-RF-Set is also available as an individual item for assembling a complete system later on.

The Case-Reader-PT-RF is available if only a storage case for the reading device is required. It only provides space for the reading device and the associated accessories (without pressure transmitters and process connection adaptors).



Case-Reader-PT-RF





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