

QPress Pressure Transmitter - QST-HIGHTEMP 5200 Series

High-temperature pressure transmitter for hot liquids and gases to +150 °C, 4–20 mA, IP65.

Certifications

Quality Lab Solutions data sheet R4



Applications

- Thermal-oil skids
- Hot-water loops
- Heat-exchangers
- High-temperature gas lines
- Power generation
- Chemical and general process plant
- Marine systems
- Automotive test rigs
- Metallurgy
- Industrial machinery.

Special Features

- High-temperature design for hot liquids and gases to +150 °C
- Welded stainless-steel wetted parts; IP65 ingress protection
- 4–20 mA (2-wire) output; 10 to 30 V DC supply
- Accuracy to ± 0.25 % FS; temperature drift $\leq \pm 0.025$ % FS/°C
- Endurance 1×10^6 cycles for industrial duty
- Hirschmann plug electrical connection; M20×1.5 male process



QST-HIGHTEMP 5200

Description

Industrial high-temperature pressure transmitter for hot liquids and gases. A heat-dissipating path protects the sensing element, delivering stable 4–20 mA output across wide gauge and absolute spans. Wetted parts and housing are stainless steel (1Cr18Ni9Ti). Ambient rating is $-40...+80$ °C with media to +150 °C. Typical accuracy is ± 0.25 % FS or ± 0.5 % FS including non-linearity, repeatability and hysteresis. Ingress protection is IP65.

Specifications

TECHNICAL SPECIFICATIONS	
Pressure range	−1 to 1600 bar (gauge); 0.25 to 600 bar (absolute)
Pressure reference	Gauge; Absolute
Accuracy	±0.25 % FS; ±0.5 % FS (includes non-linearity, repeatability and hysteresis)
Temp. drift	≤ ±0.025 % FS/°C
Response frequency	> 1 kHz
Service life	1 × 10 ⁶ cycles
Ambient temp.	−40 to +80 °C
Medium temp.	−40 to +150 °C
Insulation resistance	100 MΩ, 50 V DC
Shock resistance	100 g, 11 ms
Protection	IP65
Wetted Parts	Stainless steel 1Cr18Ni9Ti
Net weight	≤ 270 g
Size of hexagon	27 mm (SW27)
Approvals/Certification	UKCA; CE; RoHS
Electrical Outputs	4–20 mA (2-wire)
Process connections	M20×1.5 male; waterline seal
Relative Humidity	0–90 % RH
Overpressure/Burst Pressure	200 % FS or 1 500 bar (minimum applies)
Housing Material	Stainless steel 1Cr18Ni9Ti
Electrical connections	Hirschmann plug (DIN 43650 style)
Power Supply	10 to 30 V DC
Longterm Stability	≤ ±0.5 % FS/year

Measuring Range (Gauge Pressure)

Range Code	Measuring Range	Overpressure	Accuracy
1	0-10 bar	200%FS	±0.25%FS / ±0.5%FS
2	0-16 bar	200%FS	±0.25%FS / ±0.5%FS
3	0-25 bar	200%FS	±0.25%FS / ±0.5%FS
4	0-40 bar	200%FS	±0.25%FS / ±0.5%FS
5	0-60 bar	200%FS	±0.25%FS / ±0.5%FS
6	0-100 bar	200%FS	±0.25%FS / ±0.5%FS
7	0-160 bar	200%FS	±0.25%FS / ±0.5%FS
8	0-250 bar	200%FS	±0.25%FS / ±0.5%FS
9	0-400 bar	200%FS	±0.25%FS / ±0.5%FS
10	0-600 bar	200%FS	±0.25%FS / ±0.5%FS

Measuring Range (Absolute Pressure)

Range Code	Measuring Range	Overpressure	Accuracy
1	0-0.25 bar	200%FS	±0.25%FS / ±0.5%FS
2	0-0.5 bar	200%FS	±0.25%FS / ±0.5%FS
3	0-1 bar	200%FS	±0.25%FS / ±0.5%FS
4	0-1.6 bar	200%FS	±0.25%FS / ±0.5%FS
5	0-2.5 bar	200%FS	±0.25%FS / ±0.5%FS

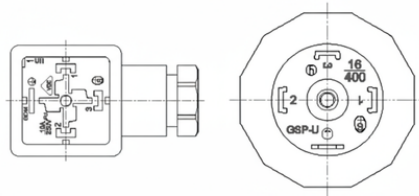
Range Code	Measuring Range	Overpressure	Accuracy
6	0-4 bar	200%FS	±0.25%FS / ±0.5%FS
7	0-6 bar	200%FS	±0.25%FS / ±0.5%FS
8	0-10 bar	200%FS	±0.25%FS / ±0.5%FS
9	0-16 bar	200%FS	±0.25%FS / ±0.5%FS
10	0-25 bar	200%FS	±0.25%FS / ±0.5%FS
11	0-40 bar	200%FS	±0.25%FS / ±0.5%FS
12	0-60 bar	200%FS	±0.25%FS / ±0.5%FS
13	0-100 bar	200%FS	±0.25%FS / ±0.5%FS
14	0-160 bar	200%FS	±0.25%FS / ±0.5%FS
15	0-250 bar	200%FS	±0.25%FS / ±0.5%FS
16	0-400 bar	200%FS	±0.25%FS / ±0.5%FS
17	0-600 bar	200%FS	±0.25%FS / ±0.5%FS

Output Signals

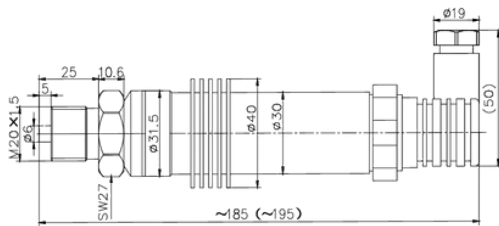
Code	Output	Power Supply	Load
I4	4-20 mA (2-wire)	10-30 VDC	≤ (U-10)/0.02 ohm

Electrical Connections

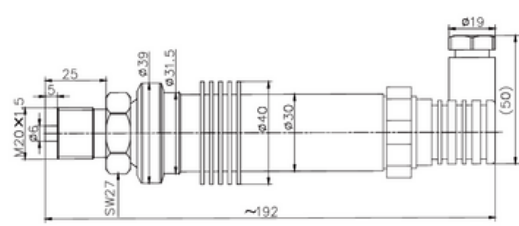
Code	Description	Pinout
E5	Hirschmann (DIN43650)	Pin 1: Supply +; Pin 2: 0V; Pin 3: Not connected



E5 – DIN 43650



G(P<0.16bar) Construction



G(P≥0.16bar) Construction

Power Supply

Code	Supply
PS1	10-30 VDC

Accuracy options

Code	Accuracy
AC1	±0.25%FS
AC2	±0.5%FS

Construction Materials

Code	Diaphragm	Pressure Port	Housing
M1	Stainless steel 1Cr18Ni9Ti	Stainless steel 1Cr18Ni9Ti	Stainless steel 1Cr18Ni9Ti

Process Connections

Code	Thread / Port
P1	M20x1.5 male, waterline seal

Order Guide

Segment	Your Code	Options
Product family	QST-HIGHTEMP 5200	QST-HIGHTEMP 5200
Pressure Reference	GP / AP	GP (gauge); AP (absolute)
Range	See MR_Gauge or MR_Absolute	
Accuracy	AC1 / AC2	±0.25%FS or ±0.5%FS
Output	I4	4-20 mA (2-wire)
Power Supply	PS1	10-30 VDC (suggested 24 VDC)
Construction Materials	M1	Stainless steel 1Cr18Ni9Ti (port & housing)
Process Connection	P1	M20x1.5 male, waterline seal
Electrical Connection	E5	Hirschmann (DIN43650)
Certification	NA / CE / RO / UK	See certifications

Ordering Example Gauge 0-16 bar (Range Code 2), ±0.5%FS, 4-20 mA (2-wire), 10-30 VDC supply, stainless steel 1Cr18Ni9Ti port & housing, M20x1.5 male waterline seal, Hirschmann plug, CE

Family	Ref	Range	Accuracy	Output	Power Supply	Construction Materials	Process Connection	Electrical Connection	Certification
QST-HIGHTEMP 5200	GP	2	AC2	I4	PS1	M1	P1	E5	CE

Notes

Ensure media compatibility with wetted parts. Torque depends on gasket, mating material and lubrication.