

QPress Pressure Transmitter - QOM-BUILD 2440 Series

Compact OEM pressure transmitter for general-purpose applications, 0–10...50 bar with analogue outputs.

Certifications

Quality Lab Solutions data sheet R4



Applications

- Industrial OEM equipment
- Pneumatics and hydraulics
- Machine tools and test rigs
- Process monitoring and water systems

Special Features

- Stainless steel, fully welded construction
- Ranges: 0–10 to 0–50 bar (gauge or sealed gauge)
- Outputs: 4–20 mA (2-wire); 0.5–4.5 V or 0.5–2.5 V (3-wire)
- IP65/IP68 protection (IP68 to 5 m for 24 h)
- Temperature-compensated electronics; robust EMC performance



QOM-BUILD 2440

Description

The QOM-BUILD 2440 is a compact OEM pressure transmitter for general-purpose industrial measurement. A silicon piezoresistive sensing element is fully welded into a stainless-steel body with elastomer sealing, providing a durable and oil-free construction. Standard ranges span 0–10 to 0–50 bar in gauge or sealed-gauge reference with analogue outputs including 4–20 mA and ratiometric voltages. The instrument meets IP65 with optional IP68 immersion capability (5 m for 24 h) and includes temperature compensation and EMC robustness for reliable service.

Specifications

TECHNICAL SPECIFICATIONS	
Pressure range	0–10 bar; 0–20 bar; 0–30 bar; 0–40 bar; 0–50 bar
Pressure reference	Gauge; Sealed gauge
Accuracy	$\leq \pm 1\%$ FS
Operating temp.	–10 to 80 °C
Storage temp.	–40 to 100 °C
EMC-immunity	IEC 61000-4-2/3/4/5/6/8
Insulation resistance	100 M Ω @ 500 V
Vibration resistance	5 g, 10–500 Hz
Shock resistance	10 g, 11 ms
Protection	IP65; IP68 (5 m/24 h)
Wetted Parts	Stainless steel 17-4PH diaphragm; Stainless steel 304 pressure port; FKM/NBR O-ring
Net weight	≤ 60 g
Size of hexagon	SW22
Approvals/Certification	UKCA; CE; RoHS
Electrical Outputs	4–20 mA (2-wire); 0.5–4.5 V (3-wire, 5 V); 0.5–2.5 V (3-wire, 5 V or 3.3 V)
Process connections	G1/4 male; NPT 1/4 male; NPT 1/8 male; G3/8 male
Overpressure/Burst Pressure	Overpressure: $\leq 1.5 \times \text{FS}$ Burst: $\leq 5 \times \text{FS}$ (Max 10MPa)
Housing Material	Stainless steel
Electrical connections	Cable, PVC, 3-core ; Packard
Power Supply	10–28 V DC (4–20 mA); 5 V ± 0.1 V (0.5–4.5 V); 3.3 V ± 0.1 V (0.5–2.5 V)
Longterm Stability	$< 0.3\%$ FS/year

Measuring Range (Gauge Pressure)

Range Code	Measuring Range	Overpressure	Accuracy
01	0-10 bar	150%FS	$\pm 1\%$ FS
02	0-16 bar	150%FS	$\pm 1\%$ FS
03	0-25 bar	150%FS	$\pm 1\%$ FS
04	0-40 bar	150%FS	$\pm 1\%$ FS
05	0-50 bar	150%FS	$\pm 1\%$ FS

Measuring Range (Sealed Pressure)

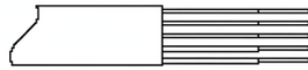
Range Code	Measuring Range	Overpressure	Accuracy
01	0-10 bar	150%FS	$\pm 1\%$ FS
02	0-25 bar	150%FS	$\pm 1\%$ FS
03	0-40 bar	150%FS	$\pm 1\%$ FS
04	0-50 bar	150%FS	$\pm 1\%$ FS

Output Signals

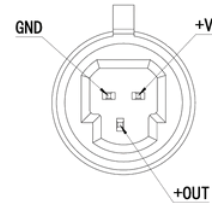
Code	Output	Power Supply	Load
I4	4-20 mA (2-wire)	10-28 VDC	$\leq (U-10)/0.02$ ohm
VR	0.5-4.5 V ratiometric (3-wire)	5 ± 0.1 VDC	≥ 10 k Ω
VN	0.5-2.5 V non-ratio (3-wire)	3.3 ± 0.1 VDC or 5 ± 0.1 VDC	≥ 10 k Ω

Electrical Connections

Code	Description	Pinout
E1	Cable outlet - 2-wire current (I4) 3-wire voltage (VR/VN)	2-wire: Red: Supply +; Black: Current output/Return (OV/+OUT) 3-wire: Red: Supply +; Green: Voltage output; Black: Ground
E6	Packard - 2-wire current (I4) 3-wire voltage (VR/VN)	2-Wire: Pin 1: Supply +; Pin 3: Current output 3-Wire Pin 1: Supply +; Pin 2: Ground; Pin 3: Voltage output



E1 – Cable outlet



E6 - Packard Plug

Power Supply

Code	Supply
PS1	10-28 VDC
PS2	5 ±0.1 VDC
PS3	3.3 ±0.1 VDC

Construction Materials

Code	Diaphragm	Pressure Port	Housing
M1	SS 17-4PH	SS 304	SS 304

Cable Material

Code	Description
CM1	PVC 3-core dedicated cable, 5 mm OD

Accuracy options

Code	Accuracy
AC1	±1%FS

Cable Length

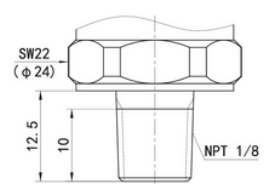
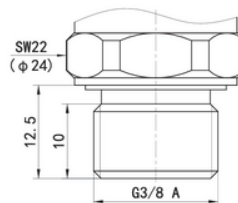
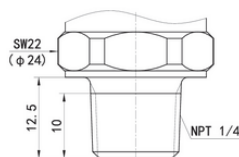
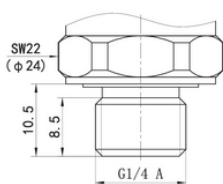
Code	Length
L0D5	0.5 m
L001	1 m
L1D5	1.5 m
L002	2 m
L003	3 m
L005	5 m
L008	8 m
L010	10 m

Certification

Code	Description
N	None
CE	CE (EMC)
UK	UKCA
RO	RoHS

Process Connections/Drawings

Code	Thread / Port
P01	G1/4 male, face seal
P02	NPT 1/4 male
P03	NPT 1/8 male
P04	G3/8 male, face seal



Order Guide

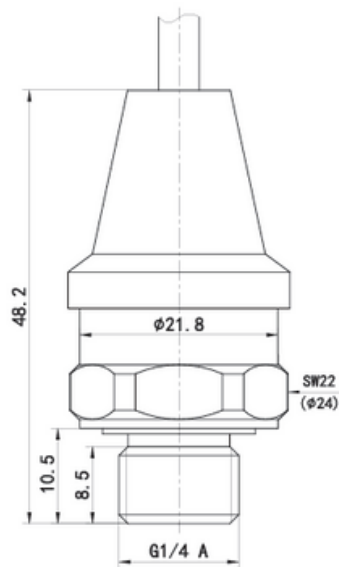
Segment	Your Code	Options
Product family	QOM-BUILD 2440	QOM-BUILD 2440
Pressure Reference	GP / SP	Select Pressure reference
Range	See MR_Gauge or MR_Sealed	Range as per Pressure reference see measuring range tables
Accuracy	AC1	See Accuracy options
Output	I4 / VR / VN	See Output Signals
Power Supply	PS1 / PS2 / PS3	See Power Supply
Construction Materials	M1	See Construction Materials
Process Connection	See Process Connections & Drawings	See Process Connections & Drawings
Connection Seal	NA	See Connection Seal
Electrical Connection	E1/E6	See Electrical Connections
Cable Material	CM1	See Cable Material
Cable Length	See Cable Length	See Cable Length
Certification	CE / UK / RO	See Certification
IP Rating	IP65 / IP68	IP68 submersible 5 m for 24 h

Ordering Example Gauge 0-16 bar, $\pm 1\%FS$, 4-20 mA (2-wire), 10-28 VDC supply, SS 17-4PH diaphragm with SS 304 port, G1/4 male face seal, no separate seal specified, cable outlet, PVC cable, 2 m length, CE, IP65

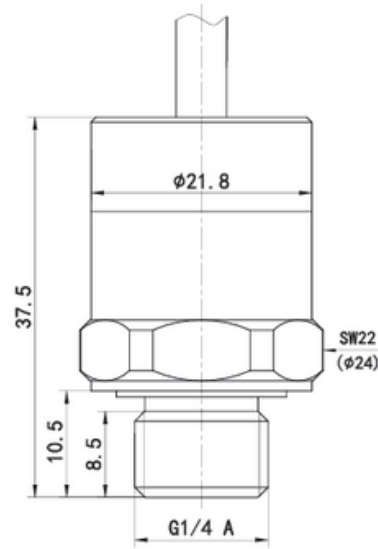
Family	Ref	Range	Accuracy	Output	Power Supply	Construction Materials	Process Connection	Process Connection Sealing	Electrical Connection	Cable Material (E1 only)	Cable Length (E1 only)	Certification	IP Rating
QOM-BUILD 2440	GP	02	AC1	I4	PS1	M1	P01	NA	E1	CM1	L002	CE	IP65

Notes

Ensure media compatibility with wetted parts. Torque depends on gasket, mating material and lubrication. Drawings below for IP65 and IP68 Variants



IP65



IP68