

QPress Smart (HART) Process Pressure Transmitter QHP-SEAL 5400 Series

Smart HART head-mount transmitter with direct or remote diaphragm seals, 100:1 turn-down and global Ex approvals.

Certifications

Quality Lab Solutions data sheet R4



Applications

- Viscous or corrosive process media
- CIP/SIP lines
- Evaporators
- Reactors
- Utilities and marine systems
- Zone 0/1/21 areas.

Special Features

- 4–20 mA + HART (HART5 default; HART7 optional); Bluetooth option; Modbus RS485
- URL: GP 0.4...100 bar; AP 0.4...10 bar with LRL and overload per range
- Damping configurable 0–100 s; response time ≤ 100 ms; sensor damping ≤ 0.2 s
- Load window 0–1476 Ω (operation); 250–800 Ω for HART comms
- IP66/IP67 housing; dual cable entries M20 $\times$ 1.5 or 1/2 NPT; glands/adapters available
- Wetted materials: 316L, Hastelloy C-276, Tantalum, Titanium, Monel; oil-free option
- Flanges DN25...DN100 or 1–4 in to EN1092-1, HG/T 20592, ANSI/ASME B16.5; thread options M44 $\times$ 1.25, G1, G2, G1-1/2, G1/2
- Ex ia / Ex db / Ex tb; NA Class/Div/Zone; marine approvals (DNV, BV, ABS, LR, KR, NK, RS)



QHP-SEAL 5400

Description

The QHP-SEAL 5400 integrates a smart transmitter with direct-mounted, remote or insertion-sleeve diaphragm seals for clean or viscous media and elevated temperatures. URL coverage spans 0.4...100 bar gauge and 0.4...10 bar absolute with a 100:1 turn-down; accuracy is $\pm 0.1\%$ SPAN ($TD \leq 5$) or $\pm 0.2\%$ SPAN ($5 < TD < 10$). Electronics damping is adjustable from 0 to 100 s with ≤ 100 ms response and ≤ 0.2 s sensor time constant. A robust IP66/IP67 enclosure offers dual cable entries M20 $\times$ 1.5 or 1/2 NPT, supporting 4–20 mA with HART (Bluetooth option) or Modbus-RS485. Materials include 316L, Hastelloy C-276, Tantalum, Titanium and Monel with selectable fill oils to match medium temperature. Comprehensive Ex ia/db/tb and marine class options enable deployment across hazardous areas and shipboard systems.

Specifications

TECHNICAL SPECIFICATIONS	
Pressure range	GP URL: 0.4 / 2.5 / 10 / 30 / 100 bar (LRL -0.4 or -1 bar; overload 10 / 40 / 60 / 150 / 200 bar). AP URL: 0.4 / 2.5 / 10 bar (LRL 0 bar; overload 10 / 40 / 60 bar).
Pressure reference	Gauge; Absolute
Accuracy	±0.1 %SPAN (TD≤5); ±0.2 %SPAN (5<TD<10)
Turn down	100:1
Temp. drift	Ambient effect per 10 °C: ±(0.5 + 0.15·TD) %SPAN (-20...80 °C)
Response time	≤100 ms
Power consumption	≤500 mW @ 24 V
Ambient temp.	Without LCD -50...85 °C; With LCD -40...70 °C
Medium temp.	Fill oils: Silicone -40...200 °C; High-temp silicone 0...315 °C; Low-temp silicone -55...120 °C; Fluorocarbon -55...85 °C
Storage temp.	Without LCD -50...100 °C; With LCD -40...85 °C
Sensor operating temp.	IEC 61000-6-3
Operating humidity	5-100 %RH @ 40 °C
Warranty	2; 3; 5 Years
Damping time	0-100 s
Relative humidity	5-100 %RH @ 40 °C
Protection	IP66; IP67
Overpressure	GP: 10 / 40 / 60 / 150 / 200 bar; AP: 10 / 40 / 60 bar
Net weight	1.61 kg
Size of hexagon	SW27
Approvals/Certification	UKCA;CE; RoHS ; ATEX; IECEx; CSA; EAC; Marine: DNV; BV; ABS; LR; KR; NK; RS
EX Protection types	Ex ia; Ex db; Ex tb
Temperature class	T4 (IS); T6 (Flameproof); T80 °C (Dust)
Electrical Outputs	4-20 mA; HART; Bluetooth (option); Modbus RS485
Process connections	Direct-mounted flange DN25...DN100 or 1-4 in; insertion sleeve DN50/2 in, DN80/3 in, DN100/4 in; remote fixed flange; direct-mounted thread M44×1.25, G1, G2, G1-1/2, G1/2 (integrated)
Cable Gland Types	M20×1.5 gland IP67; flameproof plug; adapters
Electrical entry threads	M20×1.5; 1/2 NPT
Connector material	316 SS metal plug; PVC or 316 SS glands
Fill fluid options	Silicone; High-temp silicone; Low-temp silicone; Fluorocarbon oil 2
Wetted parts	316L; HC-276; Tantalum; Titanium; Monel
Housing Material	316L stainless steel or aluminium alloy (polyester coated)
Electrical connections	Dual entries: M20×1.5 or 1/2 NPT; optional cable glands/adapters; flameproof plug
Power Supply	18.3...44 V DC (IS 18.3...30 V DC); ≤500 mW @ 24 V
Longterm Stability	±0.1 %SPAN/10 years
Vibration effect	< 0.1 %SPAN (IEC 61298-3)
Bluetooth option	Available
HART Version	HART5 default; HART7 optional
Ambient temperature effects	The total effect per 10°C in the range of -20°C ~80°C: ± (0.5+0.15TD)%SPAN
Power supply effect	Zero and span shift ≤ ±0.005% URL/V for supply variations between 18.3 and 44 V DC.

Sensor structure & Remote seal

Variant	Description
ST	Direct mounted flange
SR	Direct mounted thread
SF	Remote fixed flange
SE	Remote fixed flange insertion sleeve

Accuracy

Device	TD Range	Linear Output Accuracy	Range
GP	TD≤5	±0.1%SPAN	0.4bar, 2.5bar, 10bar, 30bar, 100bar
GP	5<TD<10	±0.2%SPAN	
AP	TD≤5	±0.1%SPAN	0.4bar, 2.5bar, 10bar
AP	5<TD<10	±0.2%SPAN	

Environmental conditions

Item	Condition
Operating temperature (no LCD)	-50 deg to +85 deg
Operating temperature (with LCD)	-40 deg to +70 deg
Storage temperature (no LCD)	-50 deg to +100 deg
Storage temperature (with LCD)	-40 deg to +85 deg
Operating humidity	5%RH to 100%RH @ 40 deg

EMC standards

Test	Standard	Test conditions	Performance level
Radiated emission (enclosure)	CISPR 32	30 MHz–1000 MHz	Qualified
Conducted emission (DC port)	CISPR 32	0.15 MHz–30 MHz	Qualified
Electrostatic discharge immunity	IEC 61000-4-2	8 kV contact, 15 kV air	B
RF electromagnetic field immunity	IEC 61000-4-3	10 V/m (80 MHz–1 GHz)	A
Power-freq magnetic field immunity	IEC 61000-4-8	30 A/m	B
Electrical fast transient/burst immunity	IEC 61000-4-4	4 kV (5/50 ns, 100 kHz)	B
Surge immunity	IEC 61000-4-5	2 kV line-line; 4 kV line-ground (1.2/50 µs)	B
Conducted RF immunity	IEC 61000-4-6	3 V (150 kHz–80 MHz)	A

Power supply & Load

Item	Specification	Notes
Supply voltage (HART)	18.3–44 VDC	13 VDC possible for non-IS on request
Supply voltage (IS HART)	18.3–30 VDC	Intrinsically safe circuits
Loop load (operation)	0–1476 Ω	-
Loop load (HART comms)	250–800 Ω	-
Transmission distance	< 1000 m	Twisted pair recommended
Power consumption	≤ 500 mW @ 24 VDC (20.8 mA)	-

Measuring Range (Absolute Pressure)

Range Code	Measuring Range	Minimum Range	LRL	URL	Overload	Overpressure	Accuracy	Notes
A01	0...0.4 bar	0.2 bar	0 bar	0.4 bar	10 bar	2500%FS	TD≤5 ±0.1%SPAN / 5<TD<10 ±0.2%SPAN; ±0.1% , ±0.2%URL	Ceramic diaphragm
A02	0...2.5 bar	0.5 bar	0 bar	2.5 bar	40 bar	1600%FS	TD≤5 ±0.1%SPAN / 5<TD<10 ±0.2%SPAN; ±0.1% , ±0.2%URL	Ceramic diaphragm
A03	0...10 bar	2 bar	0 bar	10 bar	60 bar	600%FS	TD≤5 ±0.1%SPAN / 5<TD<10 ±0.2%SPAN; ±0.1% , ±0.2%URL	

Measuring Range (Gauge Pressure)

Range Code	Measuring Range	Minimum Range	LRL	URL	Overload	Overpressure	Accuracy
G01	-0.4...0.4 bar	0.02 bar	-0.4 bar	0.4 bar	10 bar	1250%FS	TD≤5 ±0.1%SPAN / 5<TD<10 ±0.2%SPAN; ±0.1% , ±0.2%URL
G02	-1...2.5 bar	0.125 bar	-1 bar	2.5 bar	40 bar	1143%FS	TD≤5 ±0.1%SPAN / 5<TD<10 ±0.2%SPAN; ±0.1% , ±0.2%URL
G03	-1...10 bar	0.5 bar	-1 bar	10 bar	60 bar	545%FS	TD≤5 ±0.1%SPAN / 5<TD<10 ±0.2%SPAN; ±0.1% , ±0.2%URL
G04	-1...30 bar	1.5 bar	-1 bar	30 bar	150 bar	484%FS	TD≤5 ±0.1%SPAN / 5<TD<10 ±0.2%SPAN; ±0.1% , ±0.2%URL
G05	-1...100 bar	5 bar	-1 bar	100 bar	200 bar	198%FS	TD≤5 ±0.1%SPAN / 5<TD<10 ±0.2%SPAN; ±0.1% , ±0.2%URL

Output Signals

Code	Output	Power Supply	Load
IH	4-20 mA (2-wire) + HART	18.3–44 VDC (non-IS) / 18.3–30 VDC (IS)	0–1476 Ω; 250–800 Ω for HART comms
IB	4-20 mA (2-wire) + HART + Bluetooth	18.3–44 VDC (non-IS) / 18.3–30 VDC (IS)	0–1476 Ω; 250–800 Ω for HART comms
RM	RS485 (MODBUS RTU)	18.3–44 VDC	

HART Protocol

Code	Description
H5	HART 5 (default)
H7	HART 7

Electrical Connections & Pin outs

Code	Description	Pinout
E7	Terminal block via cable gland, dual conduit entries on case	- 2-wire current (IH/IB): Pin + = Supply +24V; Pin – = Loop– - Digital RS485 (RM): +24V to +; 0V to –; RS485A; RS485B

Construction Materials

Code	Diaphragm	Pressure Port	Housing
24	316L	316 SS / Flange 316 SS	316L SS case or Aluminum (polyester-coated)
27	HC-276	316 SS / Flange 316 SS	316L SS case or Aluminum (polyester-coated)
TA	Tantalum (range > 2.5 bar)	316 SS / Flange 316 SS	316L SS case or Aluminum (polyester-coated)
TT	Titanium	316 SS / Flange 316 SS	316L SS case or Aluminum (polyester-coated)
CE	Monel (range > 2.5 bar)	316 SS / Flange 316 SS	316L SS case or Aluminum (polyester-coated)

Enclosure & Conduit entry

Code	Case Material	Conduit Thread	Outlet Ports	Notes
EC1	316L SS	M20×1.5 (dual outlets)	2	
EC2	316L SS	1/2 NPT (dual outlets)	2	No cable glands included
EC3	Aluminum (polyester-coated)	M20×1.5 (dual outlets)	2	
EC4	Aluminum (polyester-coated)	1/2 NPT (dual outlets)	2	No cable glands included

Cable Gland & Adapter

Code	Type	Thread	Material	Cable OD range	IP rating	Notes
GL0	None	—	—	—	—	
GLA	Flameproof metal plug (single ended)	—	316 SS	—	—	Flameproof
GL1	Waterproof cable gland with plug	M20×1.5	PVC	6–12 mm	IP67	
GL2	Non-flameproof adapter (M20×1.5 M to M20×1.5 F)	M20×1.5	316 SS	6–8 mm	IP67	
GL3	Flameproof adapter (M20×1.5 M to 1/2 NPT F)	M20×1.5 to 1/2 NPT	316 SS	6–12 mm	IP67	
GL4	Flameproof adapter (M20×1.5 M to M20×1.5 F)	M20×1.5 to M20×1.5	316 SS	6–12 mm	IP67	
GL5	Flameproof adapter (M20×1.5 M to G1/2 F)	M20×1.5 to G1/2	316 SS	6–12 mm	IP67	

Application

Code	Description
OX	Oxygen service (use fluorocarbon fill, oil-free treatment)
OF	Oil-free degreasing of wetted parts

Power Supply

Code	Supply
V4	18.3–44 VDC (HART)
VI	18.3–30 VDC (IS HART)

Sensor structure/ Remote seal

Code	Supply
SS1	Single-flange diaphragm seal

Fill Fluid

Code	Fluid	Medium temp range	Ambient temp range
S	Normal-temperature silicone oil	–40...+200 degC	–40...+85 degC
H	High-temperature silicone oil	0...+315 degC	0...+85 degC
L	Low-temp silicone oil	–55 to +120 deg	–40...+85 degC
E	Fluorocarbon oil 2 (oxygen service)	–55 to +85 deg	–40...+85 degC

Display

Code	Display	Temp window	Notes
D0	None	–40 to +70 deg (Ex) / –50 to +85 deg (non-Ex)	
D1	LCD	–40 to +70 deg	

Accuracy options

Code	Accuracy
AG	±0.075%URL
A1	±0.1%URL
A2	±0.2%URL

Certification/Documentation

Code	Description
CE	CE (EMC)
UK	UKCA
RO	RoHS
AT	ATEX (db / ia / tb)
IX	IECEx (db / ia / tb)
UL	CSA/UL North America (Division/Zone)
CU	EAC Ex

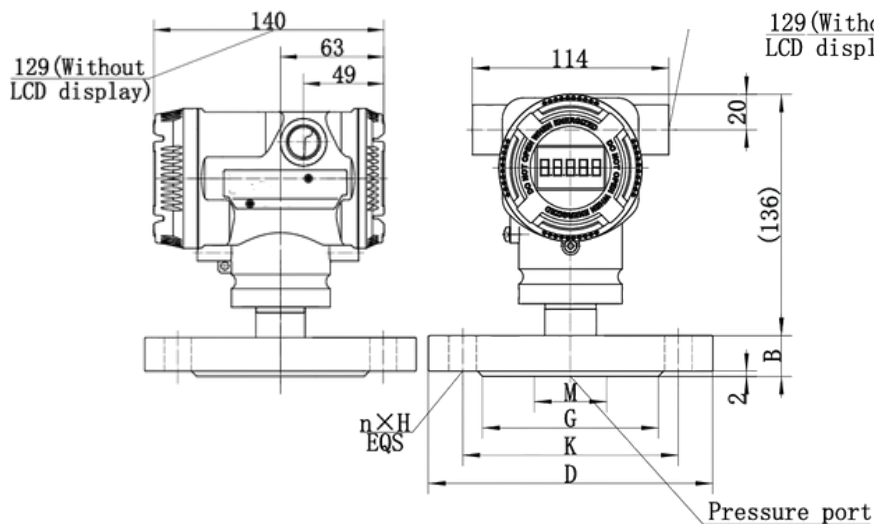
Process Connections/Drawings

Code	Thread / Port
P11	EN1092-1 DN25 flange (RF/FM/M/RJ per selection)
P12	EN1092-1 DN40 flange (RF/FM/M/RJ per selection)
P13	EN1092-1 DN50 flange (RF/FM/M/RJ per selection)
P14	EN1092-1 DN80 flange (RF/FM/M/RJ per selection)
P15	EN1092-1 DN100 flange (RF/FM/M/RJ per selection)
P21	ASME B16.5 1 in flange (RF/FM/M/RJ per selection)
P22	ASME B16.5 2 in flange (RF/FM/M/RJ per selection)
P23	ASME B16.5 3 in flange (RF/FM/M/RJ per selection)
P24	ASME B16.5 4 in flange (RF/FM/M/RJ per selection)
P31	Male M44×1.25 (GB/T193-2003; ISO261)
P32	Male G1 (ISO 228; DIN 16288; BS 2779)
P33	Male G2 (ISO 228; DIN 16288; BS 2779)
P34	Male G1-1/2 (ISO 228; DIN 16288; BS 2779)
P35	Male G1/2 (integrated)

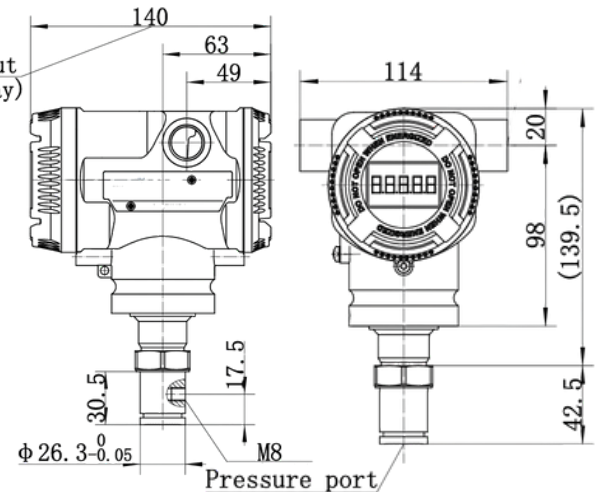
Connection Seal

Code	Seal type
RF	Raised face
FM	Female face
M	Male face
RJ	Ring joint face
R	Root
A	Axial
U	Root and axial

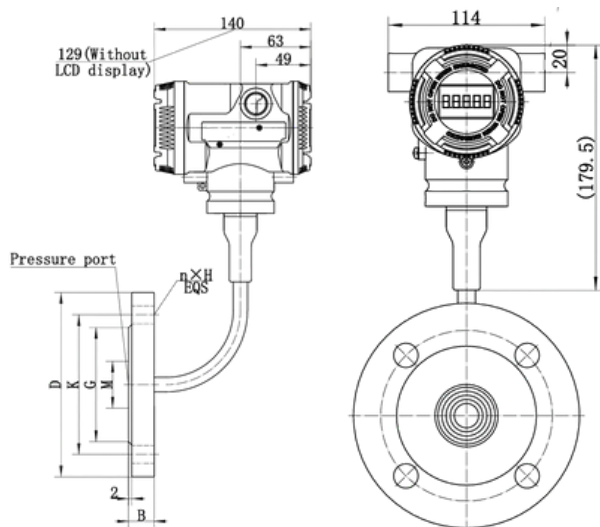
Direct mount flange (ST)



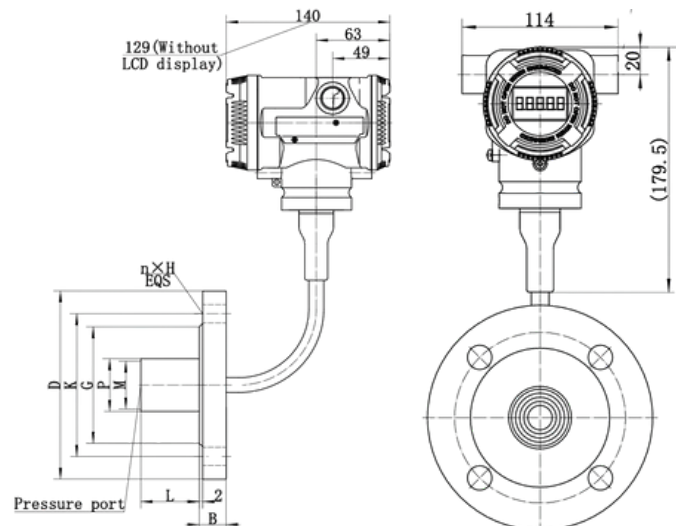
Direct mount thread (SR)



Remote flange (SF)



Remote flange Insertion (SE)



Temperature spacer (ST & SR only)

Code	Description
N	Normal temperature
H	High-temperature heat exchange parts, ≤150 degC
UH	Ultra-high temperature heat exchange parts, ≤300 degC

Capillary type (SF & SE only)

Code	Description
U	Armored 316L, PVC gray sheath 3.5 mm OD
L	Armored 316L, stainless bellows sheath 3.5 mm OD

Insertion sleeve options (SF & SE only)

Code	Description
Insertion sleeve diameter	46 / 66 / 77 mm
Insertion sleeve length	50 / 100 / 150 / 200 mm

Hazardous area

Code	Scheme	Explosion protection marking	Key standards (non-PRC)	Notes
AT	ATEX (EU)	II 1G Ex ia IIC T4 Ga	EN IEC 60079-0; EN 60079-11	Intrinsically safe
AT	ATEX (EU)	II 2G Ex db IIC T6 Gb; II 2D Ex tb IIIC T80°C Db	EN IEC 60079-0; EN 60079-1; EN 60079-31	Flameproof & dust
IX	IECEx (International)	Ex ia IIC T4 Ga	IEC 60079-0; IEC 60079-11	Intrinsically safe
IX	IECEx (International)	Ex db IIC T6 Gb; Ex tb IIIC T80°C Db	IEC 60079-0; IEC 60079-1; IEC 60079-31	Flameproof & dust
UL	North America (CSA/UL)	Class I, Div 1, Groups A–D T4; Class I, Zone 0, AEx ia IIC T4 Ga	ANSI/UL 60079-0/-11; UL 61010-1; CSA C22.2 60079-0/-11	Intrinsically safe
UL	North America (CSA/UL)	Class I, Div 1, Groups A–D T6; Class II Div 1 Groups E–G T80°C; AEx db IIC T6 Gb; AEx tb IIIC T80°C Db	ANSI/UL 60079-0/-1/-31; CSA C22.2 60079-0/-1/-31	Flameproof & dust
CU	EAC Ex (Eurasian)	1Ex db IIC T6 Gb; 0Ex ia IIC T4 Ga	GOST 31610.0; GOST IEC 60079-1/-11	—

Accessory

Code	Description
Code	Description
AX10	Cable gland kit
AX20	USB HART modem
AX30	RS485-USB converter

Optional Extras

Group	Code	Description
HART configuration	H5	HART5 configuration (default)
	H7	HART7 configuration
Function settings	ST	Damping 0–100 s (default 0 s)
	WH	High alarm 20.8 mA (H5) / 21 mA (H7)
	WL	Low alarm 3.8 mA (H5) / 3.7 mA (H7)
Calibration / Verification	CAL	Factory verification report; contract may specify LRL/URL & display unit
Verification report	Q1	Provide data per customer template; contract may specify LRL/URL & unit
Diaphragm surface treatment	T1	High-pressure side single flange PTFE coating (ST)
	T7	High-pressure side single flange PFA coating (ST)
	T3	High-pressure side single insertion sleeve PTFE coating (SE)
	T9	High-pressure side single insertion sleeve PFA coating (SE)
	T6	Thread diaphragm PTFE coating (SR)
	T12	Thread diaphragm PFA coating (SR)
	PFA	Diaphragm PFA film (non-vacuum, P≥0) (ST/SF)
Diaphragm gold plated	J1	Single diaphragm gold plated (8 µm)
Application	CL1	Degreasing & cleaning of wetted parts (oxygen service: select fluorocarbon oil)
Mounting bracket accessories	G7	L-shaped bracket (sq), 316 SS
Leakage test report	G8	L-shaped bracket (sq), Q235 carbon steel
	QS1	10 bar, 10 min (nominal 0.4 bar)
	QS2	40 bar, 10 min (nominal 2.5 bar)
	QS3	60 bar, 10 min (nominal 10 bar)
	QS4	150 bar, 10 min (nominal 30 bar)
	QS5	200 bar, 10 min (nominal 100 bar)
Language & Nameplate	LE	English docs & nameplate
	LR	Russian docs & nameplate
Identification plate	PT	316L hanging nameplate; ID ≤16 chars
Delivery Documentation	XM	Additional acceptance documents
Warranty Period	Y2	2-year warranty
	Y3	3-year warranty
	Y5	5-year warranty
Marine Class Certification	CS1	CCS
	CS2	DNV
	CS3	BV
	CS4	ABS
	CS5	LR
	CS6	KR
	CS7	NK
	CS8	RS
	PAC	Russia pattern approval
	PBY	Belarus pattern approval

Order Guide

Segment	Your Code	QHP-SEAL 5400 ST (direct flange)	QHP-SEAL 5400 SR (thread)	QHP-SEAL 5400 SF (remote fixed flange)	QHP-SEAL 5400 SE (remote insertion sleeve)
Pressure Reference		G/A	G/A	G/A	G/A
Range		See Measuring range	See Measuring range	See Measuring range	See Measuring range
Accuracy		See Accuracy (TD)	See Accuracy (TD)	See Accuracy (TD)	See Accuracy (TD)
Output		See Output Signals	See Output Signals	See Output Signals	See Output Signals
Power Supply		See Power Supply & Load Requirements	See Power Supply & Load Requirements	See Power Supply & Load Requirements	See Power Supply & Load Requirements
Enclosure & Conduit Entry		See Enclosure & Conduit Entry	See Enclosure & Conduit Entry	See Enclosure & Conduit Entry	See Enclosure & Conduit Entry
Cable Gland & Adapter		See Cable Gland & Adapter	See Cable Gland & Adapter	See Cable Gland & Adapter	See Cable Gland & Adapter
Display		N / L	N / L	N / L	N / L
Construction Materials		See Construction Materials	See Construction Materials	See Construction Materials	See Construction Materials
Fill Fluid		See Fill Fluid	See Fill Fluid	See Fill Fluid	See Fill Fluid
Process Connection		P11/P12/P13/P14/P15/ P21/P22/P23/P24	P31/P32/P33/P34/P35	P11/P12/P13/P14/P15/ P21/P22/P23/P24	P11/P12/P13/P14/P15/ P21/P22/P23/P24
Connection Seal		RF / FM / M / RJ	Thread seal R / A / U	RF / FM / M / RJ	RF / FM / M / RJ
Electrical Connection		E7	E7	E7	E7
Temperature spacers		0/1/2	0/1/2	-	-
Capillary connection location		-	-	K (rear)	-
Capillary type (sheath)		-	-	U PVC / L SS bellows	U PVC / L SS bellows
Capillary length		-	-	1–10 m	1–10 m (by diameter)
Insertion sleeve diameter		-	-	-	46 / 66 / 77 mm
Insertion sleeve length		-	-	-	50 / 100 / 150 / 200 mm
Certification		See Certification	See Certification	See Certification	See Certification
Hazardous Area		See Hazardous Area	See Hazardous Area	See Hazardous Area	See Hazardous Area
Marine Class Certification		See Marine Class Certification	See Marine Class Certification	See Marine Class Certification	See Marine Class Certification
Metrological Certification		See Metrological Certification	See Metrological Certification	See Metrological Certification	See Metrological Certification
Calibration (LRV-URV)		See Optional Extras	See Optional Extras	See Optional Extras	See Optional Extras
Function Settings (Damping/Alarm)		ST / WH / WL	ST / WH / WL	ST / WH / WL	ST / WH / WL
HART Version		H5 / H7	H5 / H7	H5 / H7	H5 / H7
Language & Nameplate		LE / LR / PT	LE / LR / PT	LE / LR / PT	LE / LR / PT
Identification Plate		PT	PT	PT	PT
Application		CL1	CL1	CL1	CL1
Diaphragm Surface Treatment		T1/T7/PFA/J1	T6/T12/J1	PFA/J1	T3/T9/J1
Lithium Battery Compliance		LD (when applicable)	LD (when applicable)	LD (when applicable)	LD (when applicable)
Delivery Documentation		XM	XM	XM	XM
Accessories		G7 / G8	G7 / G8	G7 / G8	G7 / G8

Ordering Example 0–10 bar gauge (G03); $\pm 0.1\%$ URL (A1); 4–20 mA + HART5 (IH); 18.3–44 VDC (V4); aluminum case with dual M20×1.5 entries (EC3) and IP67 gland (GL1); LCD (D1); 316L wetted parts (24); silicone oil fill (S); 1 in ASME B16.5 flange (P21) with RF seal; terminal wiring (E7); high-temperature spacer (H) — valid for ST/SR only; ATEX certified; DNV marine class; factory calibration report (CAL).

Family	Ref	Range	Accuracy	Output	Power Supply	Enclosure & Conduit Entry	Cable Gland & Adapter	Display	Construction Materials	Fill Fluid	Process Connection	Connection seal	Electrical Connection	Temperature spacers	Capillary connection location	Capillary type (sheath)
QHP-SEAL 5400 ST	GP	G03	A1	IH	V4	EC3	GL1	D1	24	S	P21	RF	E7	H	AT	AT

Capillary length	Insertion sleeve diameter	Insertion sleeve length	Certification	Hazardous Area	Marine Class Certification	Metrological Certification	Calibration (LRV-URV)	Function Settings (Damping/Alarm)	HART Version	Language & Nameplate	Identification Plate	Application	Diaphragm Surface Treatment	Lithium Battery Compliance	Delivery Documentation	Accessories
MC2	ME1	CAL	AT	AT	CS5	CAL	ST	H5	LE	PT	AX10	-	-	-	-	-

Notes

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