

Selection guide

Absolute and gauge pressure transmitters

							
Model		IAP05S	IGP05S	IAP10S	IGP10S	IAP50S	IGP50S
Type		Absolute	Gauge	Absolute	Gauge	Absolute	Gauge
Design		Direct connect	Biplanar	Direct Connect	Biplanar	Direct connect	Biplanar
Reference accuracy	4-20 mA HART	±0.075% span		±0.050% reading		±0.025% reading	
	FOUNDATION FIELDBUS	n/a		±0.050% reading		±0.025% reading	
	Modbus	±0.075% span		±0.050% reading		n/a	
	Low power 1 to 5 V DC	±0.1% span		n/a		n/a	
FoxCal technology (patented)		No		Yes		Yes	
		Traditional 2 point calibration		11 calibration curves embedded		11 calibration curves embedded	
Communication protocols		4-20 mA HART, Modbus Low Power (draw less than 3 mA)		4-20 mA HART, FOUNDATION FIELDBUS, Modbus		4-20 mA HART, FOUNDATION FIELDBUS	
Stability — long term drift		< ±0.05% URL/yr for 5 yrs		< ±0.03% URL/yr for 10 yrs		< ±0.015% URL/yr for 10 yrs	
Response time		up to 100 ms		up to 100 ms		up to 100 ms	
Turndown ratio		up to 400:1		up to 400:1		up to 400:1	
Display for visualisation and configuration		Yes (standard for low power version)		Yes (in option)		Yes (in option)	
Temperature range		-40 °C (-40°F) to 85 °C (185 °F) optional: -50 °C (-58 °F)		-40 °C (-40 °F) to 85 °C (185 °F) optional: -50 °C (-58 °F)		-40 °C (-40 °F) to 85 °C (185 °F) optional: -50 °C (-58 °F)	
Ingress protection rating		IP66/IP67, NEMA 4X		IP66/IP67, NEMA 4X		IP66/IP67, NEMA 4X	
Housing material		Aluminium and 316 Stainless Steel		Aluminium and 316 Stainless Steel		Aluminium and 316 Stainless Steel	
Diaphragm material		316L ss or Hastelloy C		316 ss, Co-Ni-Cr, Monel, tantalum, Hastelloy C or gold-plated 316L SS		316 ss, Co-Ni-Cr, Monel, tantalum, Hastelloy C or gold-plated 316L SS	
Fill fluid		Silicone, Fluorinert		Silicone, Fluorinert		Silicone, Fluorinert	
Conduit connections		1/2 NPT or M20		1/2 NPT or M20		1/2 NPT or M20	
Transient and reverse polarity protections		Yes, standard		Yes, standard		Yes, standard	
Certifications and approvals		FM, CSA, IECEx, ATEX, INMETRO, EAC, NEPSI, KC		FM, CSA, IECEx, ATEX, INMETRO, EAC, NEPSI, KC		FM, CSA, IECEx, ATEX, INMETRO, EAC, NEPSI, KC	
ATEX and IECEx multimarking		Yes		Yes		Yes	
Safety certification		TÜV SIL2/SIL3 (HART) as standard		TÜV SIL2/SIL3 (HART) as standard		TÜV SIL2/SIL3 (HART) as standard	
Warranty		2 years standard, 5 years optional		5 years standard, up to 17 years optional		5 years standard, up to 17 years optional	
Special process connections	Sanitary	Yes		Yes		Yes	
	Pulp and paper	Yes		Yes		Yes	
	High pressure	up to 30,000 psi/2068 bar		n/a		n/a	
Remote seals and closed-coupled seals		Yes		Yes		Yes	
Specifications		PSS 2A-1S05 A		PSS 2A-1S10 A		PSS 2A-1S50 A	

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Differential pressure transmitters
(continued)



Model		IDP05S	IDP10S	IDP50S
Type/design		Differential - Traditional Low Profile 1 and 2	Differential - Traditional Low Profile 1 and 2	Differential - Traditional Low Profile 1 and 2
Reference accuracy	4-20 mA HART	±0.075% Span	±0.050% Reading	±0.025% Reading
	FOUNDATION FIELDBUS	n/a	±0.050% Reading	±0.025% Reading
	Modbus	±0.075% Span	±0.050% Reading	±0.025% Reading
	Low power 1 to 5 V DC	±0.1% Span	n/a	n/a
FoxCal technology (patented)		No Traditional calibration	Yes 11 calibration curves embedded	Yes 11 calibration curves embedded
Communication protocols		4-20 mA HART, Modbus, Low Power (draw less than 3 mA)	4-20 mA HART, FOUNDATION FIELDBUS, Modbus	4-20 mA HART, FOUNDATION FIELDBUS, Modbus
Stability — long term drift		< ±0.05% URL/yr for 5 yrs	< ±0.03% URL/yr for 10 yrs	< ±0.015% URL/yr for 10 yrs
Response time		up to 125ms	up to 125 ms	up to 125ms
Turndown ratio		up to 400:1	up to 400:1	up to 400:1
Display for visualisation and configuration		Yes (standard for low power version)	Yes (in option)	Yes (in option)
Temperature range		-40 °C (-40 °F) to 85 °C (185 °F) optional: -50 °C (-58 °F)	-40 °C (-40 °F) to 85 °C (185 °F) optional: -50 °C (-58 °F)	-40 °C (-40 °F) to 85 °C (185 °F) optional: -50 °C (-58 °F)
Ingress protection rating		IP66/IP67, NEMA 4X	IP66/IP67, NEMA 4X	IP66/IP67, NEMA 4X
Housing material		Aluminium and 316 Stainless Steel	Aluminium and 316 Stainless Steel	Aluminium and 316 Stainless Steel
Diaphragm material		316L ss or Hastelloy C	Traditional: 316L ss, Co-Ni-Cr, Monel, Tantalum, Hastelloy C, or gold-plated 316L ss Low profile structures: 316L ss or Hastelloy C	Traditional: 316L ss, Co-Ni-Cr, Monel, Tantalum, Hastelloy C, or gold-plated 316L ss Low profile structures: 316L ss or Hastelloy C
Fill fluid		Silicone, Fluorinert	Silicone, Fluorinert	Silicone, Fluorinert
Conduit connections		1/2 NPT or M20	1/2 NPT or M20	1/2 NPT or M20
Transient and reverse polarity protections		Yes, standard	Yes, standard	Yes, standard
Certifications and approvals		FM, CSA, IECEx, ATEX, INMETRO, EAC, NEPSI, KC	FM, CSA, IECEx, ATEX, INMETRO, EAC, NEPSI, KC	FM, CSA, IECEx, ATEX, INMETRO, EAC, NEPSI, KC
ATEX and IECEx multimarking		Yes	Yes	Yes
Safety certification		TÜV SIL2/SIL3 (HART) as standard	TÜV SIL2/SIL3 (HART) as standard	TÜV SIL2/SIL3 (HART) as standard
Warranty		2 years standard, 5 years optional	5 years standard, up to 17 years optional	5 years standard, up to 17 years optional
Special process connections	Sanitary	Yes	Yes	Yes
	Pulp and paper	Yes	Yes	Yes
Remote seals and closed-coupled seals		Yes	Yes	Yes
Specifications		PSS 2A-1S05 A	PSS 2A-1S10 A	PSS 2A-1S50 A