Honeywell

Airflow, Force and Pressure Sensors Product Range Guide

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For innovation that's well apart, there's only Honeywell.

With more than 50,000 products ranging from snap-action, limit, toggle, and pressure switches to position, speed, pressure, and airflow sensors, Honeywell has one of the broadest sensing and switching portfolios.

Honeywell sensor, switch, and control components are tailored to exact specifications for stronger performance, longer productivity, and increased safety. Enhanced accuracy and durability are built into every part, improving output and endurance. For our customers, this can reduce expenditures and operational costs. Our global footprint and channels help to competitively price such components for your chosen application and provide immediate technical support. While Honeywell's switch and sensor solutions are suitable for a wide array of basic and complex applications, our customengineered solutions offer enhanced precision, repeatability, and ruggedness. We offer domain knowledge and technology resources, along with a close working relationship, to develop and deliver cost-effective, individually tailored solutions. Whether clean-slate development or simple modifications to an existing design are needed, our expertly engineered solutions help to meet the most stringent requirements with world-class product designs, technology integration, and customer-specific manufacturing.

Global service, sourcing, and manufacturing. Industry-leading engineers. Value-added assemblies and solutions. A one-stop, full-service, globally competitive supplier.

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Force Sensors

Measure the addition or backup of force, meaning the resistance of siliconimplanted piezoresistors will increase when flexed under applied force. Potential applications include infusion pumps, anesthesia monitors, blood pressure equipment, and more.



Series	FSA	FSG	FSS
Signal conditioning	amplified	unamplified	unamplified
Technology	silicon die (piezoresistive)	silicon die (piezoresistive)	silicon die (piezoresistive)
Output	ratiometric analog SPI- or I²C-compatible digital	360 mV typ.	360 mV typ.
Force range	N: 5, 7. 5, 10, 15, 20, 25 lb: 1, 1.5, 2, 3, 5 g: 500, 750 kg: 1, 2	0 N to 5 N, 0 N to 10 N, 0 N to 15 N, 0 N to 20 N	0 N to 5 N, 0 N to 10 N, 0 N to 15 N, 0 N to 20 N
Overforce	15 lb [6804 g]	60 N max. (range dependent)	60 N max. (range dependent)
Operating temperature range	0°C to 70°C [32°F to 158°F]	-40°C to 85°C [-40°F to 185°F]	-40°C to 85°C [-40°F to 185°F]
Compensated temperature range	5°C to 50°C [41°F to 122°F]	-	-
Measurements (H x W x D)	8,25 mm x 17,36 mm x 25,02 mm [0.32 in x 0.86 in x 0.99 in]	9,04 mm x 12,70 mm x 18,14 mm [0.36 in x 0.50 in x 0.71 in]	3,18 mm x 14,22 mm x 5,59 mm [0.13 in x 0.56 in x 0.22 in]
Features	calibrated and temperature compensated using on-board Application Specific Integrated Circuit (ASIC)	extremely low deflection, low repeatability and linearity error	low deflection, low voltage, direct mechanical coupling of actuator ball, small size







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Series	FSS-SMT	TBF Basic	1865
Signal conditioning	unamplified	unamplified	unamplified
Technology	silicon die (piezoresistive)	silicon die (piezoresistive)	silicon die (piezoresistive)
Output	360 mV typ.	mV	current excitation: 100 mV typ. voltage excitation: 40 mV typ.
Force range or pressure range	0 N to 5 N, 0 N to 10 N, 0 N to 15 N, 0 N to 20 N	1 bar to 10 bar 100 kPa to 1 MPa 15 psi to 150 psi	0 psi to 5 psi, 0 psi to 10 psi, 0 psi to 15 psi, 0 psi to 25 psi, 0 psi to 30 psi
Overforce or overpressure	60 N max. (range dependent)	17 bar max. 1.70 MPa max. 245 psi max. (all range dependent)	60 psi max. (range dependent)
Operating temperature range	-40°C to 85°C [-40°F to 185°F]	0°C to 50°C [32°F to 122°F]	-28°C to 54°C [-18°F to 129°F]
Compensated temperature range	-	0°C to 50°C [32°F to 122°F]	-1°C to 54°C [30°F to 129°F]
Measurements (H x W x D)	3,18 mm x 13,70 mm x 5,59 mm [0.13 in x 0.54 in x 0.22 in]	3,89 mm x 7 mm x 7 mm [0.15 in x 0.28 in x 0.28 in]	11,05 mm x 17,15 mm x 17,15 mm [0.44 in x 0.68 in x 0.68 in]
Features	low deflection, low voltage, direct mechanical coupling of actuator ball, small size	pressure measurement for liquid media, extremely small size, low power consumption	pressure measurement for liquid media, 8-pin DIP electrical connection



Airflow Sensors

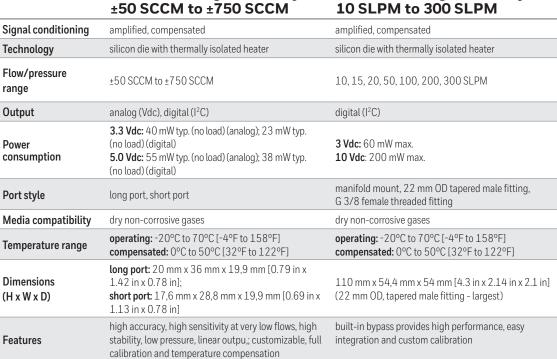
Contain advanced microstructure technology to provide a sensitive and fast response to flow, amount/direction of air or other gases. Potential applications include HVAC, gas metering, chromatography, vent hoods, and medical equipment.



mcg/kg



Series Honeywell Zephyr™ HAF Series-High Accuracy ±50 SCCM to ±750 SCCM







Honeywell Zephyr[™]

HAF Series-High Accuracy

Series	AWM5000	AWM700
Signal conditioning	amplified	amplified
Technology	silicon die	silicon die
Flow/pressure range	0 SLPM to 5.0 SLPM; 0 SLPM to 10.0 SLPM; 0 SLPM to 15.0 SLPM; 0 SLPM to 20.0 SLPM	200 SLPM
Output	analog	analog
Power consumption	100 mW max.	60 mW max.
Port style	1/4 in-18 NPT	22 mm tapered
Media compatibility	dry gas only	dry gas only
Temperature range	operating: -20°C to 70°C [-4°F to 158°F] compensated: 0°C to 50°C [32°F to 122°F]	operating: -25°C to 85°C [-13°F to 185°F] compensated: 10°C to 40°C [50°F to 104°F]
Dimensions (H x W x D)	35,6 mm x 162,8 mm x 32,3 mm [1.40 in x 6.41 in x 1.27 in]	82,55 mm x 46,5 x 32,5 mm [3.25 in x 1.83 in 1.28 in]
Features	sensitivity to low flows, enhanced response time, low power consumption, analog output, laser trimmed	sensitivity to low flows, enhanced response time, low power consumption; analog output, highly stable

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AWM1000

AWM2000

AWM3000

unamplified, compensated	unamplified, compensated	amplified
silicon die	silicon die	silicon die
± 200 SCCM; 1000 SCCM to -600 SCCM; $\pm 5,0$ mbar [2.0 in $\rm H_20$]	±30 SCCM; ±200 SCCM; ±1000 SCCM; ±5,0 mbar [2.0 in H ₂ 0]	30 SCCM; 200 SCCM; 1000 SCCM; ±1000 SCCM; 0 mbar to 1,25 mbar [0 in H_20 to 0.5 in H_20]; 0 mbar to 5,0 mbar [0 in H_20 to 2 in H_20]; 5,0 mbar [2.0 in H_20]
analog	analog	analog
30 mW typ.	30 mW typ.	50 mW typ.
straight	straight	straight
dry gas only	dry gas only	dry gas only
-25°C to 85°C [-13°F to 185°F]	-25°C to 85°C [-13°F to 185°F]	-25°C to 85°C [-13°F to 185°F]
12,7 mm x 54,4 mm x 31,5 mm [0.5 in x 2.14 in x 1.24 in]	12,7 mm x 54,4 mm x 31,5 mm [0.5 in x 2.14 in x 1.24 in]	12,7 mm x 54,4 mm x 31,5 mm [0.5 in x 2.14 in x 1.24 in]
sensitivity to low flows, enhanced response time, low power consumption, analog output, bi-directional sensing capability	sensitivity to low flows, enhanced response time, low power consumption, analog output, bi-directional sensing capability	sensitivity to low flows, fast response time, low power con- sumption, analog output, amplified, bi-directional flow





AWM40000	AWM90000
unamplified (compensated) or amplified	uncompensated
silicon die	silicon die
±25.0 SCCM; 1.0 SLPM; 6.0 SLPM	±200 SCCM; ±5,0 mbar [2.0 in H ₂ 0]
analog	analog
60 mW max. or 75 mW max.	50 mW max.
manifold	parallel
dry gas only	dry gas only
operating inclusive: -40°C to 125°C [-40°F to 251°F] compensated:-25°C to 85°C [-13°F to 185°F]	-25°C to 85°C [-13°F to 185°F]
12,7 mm x 30,5 mm x 30,2 mm [0.50 in x 1.2 in x 1.19 in]	13,08 mm x 30,48 mm x 27,94 mm [0.52 in x 1.2 in x 1.1 in]
sensitivity to low flows, enhanced response time, low power consumption, analog output, laser trimmed	sensitivity to low flows, fast response time, low power consumption, analog output, bi-directional sensing capability



Board Mount Pressure Sensors

Series

Utilize a specialized piezoresistive micromachined sensing element which allows part interchangeability, and enhanced performance, reliability, and accuracy. Potential applications include medical, HVAC, data storage, industrial machinery, pumps, and robotics.





TruStability™ HSC TruStability™ SSC

Signal conditioning	amplified	amplified	amplified
Pressure range	±1.6 mbar to ±10 bar ±160 Pa to ±1 MPa ±0.5 inH ₂ 0 to ±150 psi	±1.6 mbar to ±10 bar ±160 Pa to ±1 MPa ±0.5 inH ₂ 0 to ±150 psi	±1.6 mbar to ±10 bar ±160 Pa to ±1 MPa ±0.5 inH ₂ 0 to ±150 psi
Device type	absolute, differential, gage	absolute, differential, gage	absolute, differential, gage
Output	24-bit digital SPI	digital (I²C, SPI), analog (Vdc)	digital (I²C, SPI), analog (Vdc)
Calibrated	yes	yes	yes
Temperature comp.	yes	yes	yes
Total error band	as low as ±0.25 %FSS depending on pressure range after customer auto-zero	±1 %FSS to ±3 %FSS depending on pressure range	±2 %FSS to ±5 %FSS depending on pressure range
Accuracy	±0.1 %FSS BFSL	±0.25 %FSS BFSL	±0.25 %FSS BFSL
Mounting options	DIP, SMT	DIP, SIP, SMT	DIP, SIP, SMT
Operating temperature range	-40 °C to 85 °C [-40 °F to 185 °F]	-20°C to 85°C [-4°F to 185°F]	-40°C to 85°C [-40°F to 185°F]
Compensated temperature range	-40 °C to 85 °C [-40 °F to 185 °F]	0°C to 50°C [32°F to 122°F]	-20°C to 85°C [-4°F to 185°F]
Dimensions (H x W x D)	varies by package style	varies by package style	varies by package style
Approvals	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Features	uses a 24-bit analog-to digital converter with integrated EEPROM; high resolution, high accuracy; industry-leading, accuracy and flexibility; power consumption <10 mW typ.	industry-leading, long-term stability, total error band, accuracy and flexibility; high burst pressures and working pressure ranges; excellent repeatability; liquid media compatible on port 1	industry-leading, long-term stability, total error band, accuracy and flexibility; high burst pressures and working pressure ranges; excellent repeatability; liquid media compatible on port 1













-680 v	-6420	1	14	12	
TruStability™ TSC	TruStability™ NSC	Basic ABP	Basic TBP	Basic NBP	MicroPressure MPR
unamplified	unamplified	amplified	unamplified	unamplified	amplified
±60 mbar to ±10 bar ±6 kPa to ±1 MPa ±1 psi to ±150 psi	±2.5 mbar to ±10 mbar ±250 Pa to ±1 MPa ±1 inH ₂ 0 to ±150 psi	±60 mbar to ±10 bar ±6 kPa to ±1 MPa ±1 psi to ±150 psi	±60 mbar to ±10 bar ±6 kPa to ±1 MPa ±1 psi to ±150 psi	±60 mbar to ±10 bar ±6 kPa to ±1 MPa ±1 psi to ±150 psi	60 mbar to 2.5 bar 6 kPa to 250 kPa 1 psi to 30 psi
differential, gage	absolute, differential, gage	differential, gage	gage	absolute, gage	absolute, gage
analog (mV)	analog (mV)	digital (I²C, SPI), analog (Vdc)	analog (mV)	analog (mV)	24-bit digital I ² C, SPI
yes	no	yes	yes	no	yes
yes	no	yes	yes	no	yes
-	-	±1.5 %FSS BFSL	-	-	as low as ±1.5 %FSS after customer auto-zero
±0.25 %FSS BFSL	±0.25 %FSS BFSL	±0.25 %FSS BFSL	±0.25 %FSS BFSL	±0.25 %FSS BFSL	±0.25 %FSS BFSL
DIP, SIP, SMT	DIP, SIP, SMT	DIP, SMT, leadless SMT	DIP, SMT, leadless SMT	DIP, SMT, leadless SMT	leadless SMT
-40°C to 85°C [-40°F to 185°F]	-40°C to 85°C [-40°F to 185°F]	-40°C to 85°C [-40°F to 185°F]	-40°C to 125°C [-40°F to 257°F]	-40°C to 125°C [-40°F to 257°F]	-40°C to 85°C [-40°F to 185°F]
0°C to 85°C [32°F to 185°F]	-	0°C to 50°C [32°F to 122°F]	0°C to 85°C [32°F to 185°F]	-	0°C to 50°C [32°F to 122°F]
varies by package style	varies by package style	assmallas 7 mm x 7 mm x 3,84 mm [0.276 in x 0.276 in x 0.151 in]	as small as 7 mm x 7 mm x 3,84 mm [0.276 in x 0.276 in x 0.151 in]	assmall as 7 mm x 7 mm x 3,84 mm [0.276 in x 0.276 in x 0.151 in]	as small as 5 mm x 5 mm x 3,13 mm [0.20 in x 0.20 in x 0.12 in]
RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	REACH, RoHS
industry-leading, long-term stability allows customers the flexibility of sensor self calibration; liquid media compatible on port 1	industry-leading, long-term stability allows customers the flexibility of sensor self calibration; liquid media compatible on port 1	designed to provide a simple, cost-effective, basic performance, high quality solution for those medical and industrial applications where high performance, stability, and accuracy are not as critical; liquid media compatible on ports 1 and 2; food-grade compliant	designed to provide a simple, cost-effective, basic performance, high quality solution for those medical and industrial applications where high performance, stability, and accuracy are not as critical, liquid media compatible on port 1; food- grade compliant	designed to provide a simple, cost-effective, basic performance, high quality solution for those medical and industrial applications where high performance, stability, and accuracy are not as critical, liquid media compatible on port 1; food- grade compliant	designed to meet the requirements of higher volume medical (consumer and non-consumer) devices and commercial appliance applications; low power consumption; liquid media compatible; food-grade compliant

Board Mount Pressure Sensors

Utilizes a specialized piezoresistive micromachined sensing element which allows part interchangeability, and enhanced performance, reliability, and accuracy. Potential applications include medical, HVAC, data storage, industrial machinery, pumps, and robotics.







Series	24PC	26PC
Signal conditioning	unamplified	unamplified
Pressure range	0.5 psi to 250 psi (SIP, DIP) 1 psi to 15 psi (SMT)	1 psi to 250 psi (SIP, DIP) 1 psi to 15 psi (SMT)
Device type	absolute, differential, wet-wet differential, gage	differential, wet-wet differential, gage
Output	mV	mV
Calibrated	no	yes
Temperature compensation	no	yes
Accuracy	linearity and hysteresis: 0.5 % typ.	linearity and hysteresis: 0.5 % typ.
Mounting options	DIP, SIP, SMT	DIP, SIP, SMT
Operating temperature range	-40°C to 85°C [-40°F to 185°F]	-40°C to 85°C [-40°F to 185°F]
Compensated temperature range	-	0°C to 50°C [32°F to 122°F]
Dimensions (H x W x D)	SIP, DIP: 27,94 mm x 12,7 mm x 16,0 mm [1.10 in x 0.5 in x 0.63 in] SMT: 7,87 mm x 10,41 mm x 10,92 mm [0.31 in x 0.41 in x 0.43 in]	SIP, DIP: 27,94 mm x 12,7 mm x 16,0 mm [1.10 in x 0.5 in x 0.63 in] SMT: 7,87 mm x 10,41 mm x 10,92 mm [0.31 in x 0.41 in x 0.43 in]
Approvals	RoHS, WEEE	RoHS, WEEE
Features	SIP, DIP: true wet/wet differential sensing; min- iature package; operable after exposure to frozen conditions; choice of termination for gage sensors SMT: true wet/wet differential sensing; pick-up feature; maximum peak reflow temperature of 260°C [500°F]; end-point calibration; elastomeric construction	SIP, DIP: true wet/wet differential sensing; min- iature package; operable after exposure to frozen conditions; choice of termination for gage sensors SMT: true wet/wet differential sensing; pick-up feature; maximum reflow temperature of 260°C [500°F]; end-point calibration; elastomeric construction

Board Mount Pressure Sensors

Features a sensing technology that utilizes a specialized piezoresistive micro-machined sensing element. Potential uses include measuring vacuum or positive pressure in medical and environmental applications.



011

Series	24PC Flow-Through	26PC Flow-Through
Signal conditioning	unamplified	unamplified
Pressure range	1 psi to 100 psi	1 psi to 100 psi
Device type	flow-through gage	flow-through gage
Output	mV	mV
Calibrated	no	yes
Temperature compensation	no	yes
Accuracy	linearity and hysteresis: 0.75 % typ.	linearity and hysteresis: 0.35 % typ.
Mounting options	SIP	SIP
Operating temperature range	-40°C to 85°C [-40°F to 185°F]	-40°C to 85°C [-40°F to 185°F]
Compensated temperature range	-	0°C to 50°C [32°F to 122°F]
Dimensions (H x W x D)	8,89 mm x 25,65 mm x 12,7 mm [0.35 in x 1.01 in x 0.50 in]	8,89 mm x 25,65 mm x 12,7 mm [0.35 in x 1.01 in x 0.50 in]
Approvals	RoHS, WEEE	RoHS, WEEE
Features	miniature package; media flow-through por choice of termination for gage sensors	rt; operable after exposure to frozen conditions;



Pressure Transducers | Heavy Duty

Engineered to be resistant to a wide variety of media for use in most harsh environments. Potential applications include air compressors, general system and factory automation, pump, valve, and fluid pressure, transportation (heavy equipment and alternative fuel vehicles) system pneumatics and hydraulics. controls, tank pressure, and process control systems.





Series	13 mm	19 mm	SPT
Pressure connection	weld ring with back support, 1/8-27 NPT, 1/4-18 NPT, 7/16 UNF	weld ring with body O-ring, flush mount, flush mount with flange, 1/8-27 NPT, 1/4-18 NPT, 7/16 UNF, 1/4 BSPP, Euro O-ring, 1/4 VCR (female nut)	1/8-27 NPT, 1/4-18 NPT, 7/16-20 UNF, 1/4-19 BSPP, 1/4 VCR gland

Measurement type	absolute, sealed gage	absolute, gage, vacuum gage	absolute, gage, sealed gage, vacuum gage pressures
Construction	wetted parts 316L SS	wetted parts 316L SS	wetted parts 316L SS
Pressure range	0 psi to 500 psi through 0 psi to 5000 psi	0 psi to 3 psi through 0 psi to 500 psi	0 psi to 3 psi through 0 psi to 5000 psi
Output	0 mV to 100 mV (nominal)	0 mV to 100 mV (nominal)	4 mA to 20 mA, 0 mV to 100 mV, 1 Vdc to 5 Vdc
Accuracy	±0.25 %BFSL max.	±0.25 %BFSL max.	±0.25 %BFSL max.
Total Error Band	-	-	-
Amplified	no	no	yes, amplified and unamplified
Operating temperature range	-40°C to 125°C [-40°F to 257°F]	-40°C to 125°C [-40°F to 257°F]	-40°C to 85°C [-40°F to 185°F]
Compensated temperature range	0°C to 82°C [32°F to 180°F]	0°C to 82°C [32°F to 180°F]	-10°C to 85°C [14°F to 185°F]
Electrical Connection	ribbon cable	ribbon cable	bayonet connector, cable
Dimensions (H x W x D)	varies by body type	varies by body type	22,2 mm x 22,2 mm x length varies [0.875 in x 0.875 in x length varies]
Certifications/ Approvals	RoHS	RoHS	-
Features	isolated stainless steel package, voltage or current supply options	isolated stainless steel package, vacuum compatible	calibrated and temperature compensated, NEMA 4 design, rugged 316 stainless steel wetted parts

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1/4-18 NPT, 1/8-27 NPT, 7/16-20 UNF, 1/4 in 45° Flare Female Schrader with depressor, 1/2-14 NPT, R 1/4-19 BSPT, R 1/8-28 BSPT, 3/8-24 UNF with O-ring seal, 7/16-20 UNF with O-ring seal, 1/2-20 UNF with O-ring seal, 9/16-18 UNF with O-ring seal, M10x1 with O-ring seal, M12x1.5 with O-ring seal, M14x1.5 with O-ring seal, M16x1.5 with O-ring seal, M18x1.5 with O-ring seal, M2x1.5 with O-ring seal, G1/8-28 BSPP with bonded washer, G1/4-19 BSPP with bonded washer, G1/8-28 BSPP with elastomeric seal, G1/4-19 BSPP with elastomeric seal

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PX2

7/16-20 UNF 1/4 in 45° Flare Female Schrader, 7/16-20 UNF 45° Flare Male, 7/16-20 UNF 37° Flare Male, G1/4, G1/8, M12 \times 1.5, 1/4-18 NPT, 1/8-27 NPT, 9/16-18 UNF, 7/16-20 UNF

PX3

7/16-20 UNF 1/4 inch 45° Flare Female Schrader (SAE J512), G1/4 A-G (1179-3), G1/4 A-L (1179-2), M12 x 1.5 (ISO 6149-3), 1/4-18 NPT, (ANSI/ASME B1.20.1), 1/8-27 NPT, (ANSI/ASME B1.20.1), brazable tube

sealed gage, vented gage (relative)	absolute, sealed gage, vented gage	absolute, sealed gage
port: 304L stainless steel; diaphragm: Haynes 214 alloy	port and housing: 304 stainless steel connector: PBT 30% GF	threaded ports: brass C36000 (lead (Pb) content: 3.7% max.) tube port: copper UNS C12200 (lead (Pb) free)
6 bar to 550 bar 50 psi to 8000 psi	1 bar to 70 bar 100 kPa to 7 MPa 15 psi to 1000 psi	1 bar to 50 bar 15 psi to 700 psi
ratiometric (from 5 Vdc excitation): 0.5 Vdc to 4.5 Vdc; regulated: 1 Vdc to 6 Vdc, 0.25 Vdc to 10.25 Vdc, 0.5 Vdc to 4.5 Vdc, 1 Vdc to 5 Vdc; current: 4 mA to 20 mA	ratiometric: 5.0 V, 10 %Vs to 90 %Vs; 5.0 V, 5 %Vs to 95 %Vs; 3.3 V, 10 %Vs to 90 %Vs; 3.3 V, 5 %Vs to 95 %Vs regulated: 1 Vdc to 6 Vdc, 0.25 Vdc to 10.25 Vdc, 0.5 Vdc to 4.5 Vdc, 1 Vdc to 5 Vdc; current: 4 mA to 20 mA	ratiometric: 0.5 Vdc to 4.5 Vdc, 0.33 Vdc to 2.97 Vdc current: 4 mA to 20 mA
±0.25 %FSS (±0.5 %FSS on ranges below 100 psi)	±0.25 %FSS	±0.25 %FSS
$\pm 2~\% FSS$ to $\pm 15~\% FSS$ (depending on temperature range and termination type)	±2 %FSS (-40°C to 125°C [-40°F to 257°F])	±1.0 %FSS: -20°C to 85°C [-4°F to 185°F] ±2.0 %FSS: <-20°C, >85°C [<-4°F, >185°F]
yes	yes	yes
-40°C to 125°C [-40°F to 257°F]	-40°C to 125°C [-40°F to 257°F]	-40°C to 125°C [-40°F to 257°F]
ratiometric output: -40°C to 125°C [-40°F to 257°F] regulated and 4 mA to 20 mA outputs: -40°C to 125°C [-40°F to 257°F] (See literature for operating and temperature compensation informaiton.)	-40°C to 125°C [-40°F to 257°F]	-40°C to 125°C [-40°F to 257°F]
Metri-Pack 150, Hirschmann, M12 x 1 (Brad Harrison micro), DIN 43650-C, 8 mm male, AMP Superseal 1.5, cable harness (1 m or 3 m), flying leads (6 in), Deutsch DTM04-3P (integral)	Metri-Pack 150 (UL 94 HB or V-0 options), Micro M12, DIN, Deutsch, or cable harness (1 m, 2 m, 3 m, or 5 m)	Metri-Pack 150 (UL V-0), DIN (Male, EN 175301-803C), cable harness (PVC or XLPE)
27,0 mm x 27,0 mm x 55 mm [1.06 in x 1.06 in x 2.18 in]	66 mm x 21,5 mm dia. [2.60 in x 0.84 in dia.]	50 mm x 22,0 mm [2.0 in x 0.87 in]
RoHS, CE, UL component recognition for USA/Canada: file no. E258956	RoHS, CE	RoHS, REACH, CE
all-metal wetted parts, no internal elastomeric seals, input reverse voltage protection, less than 2 ms response time, easy customization, exceeds CE heavy industrial EMC for use in areas of high RFI/EMI	designed for configurability, cost-effective, global support, industry-leading Total Error Band, durable, designed to Six Sigma standards, good EMC protection	survives frost exposure (commonly found in refrigeration systems), compatible wth common HFC (hydrofluorocar- bon) refrigerants and next generation low global warming potential (GWP) refrigerants

Honeywell 11

Pressure Transducers | Test and Measurement

These sensors feature rugged, all welded, stainless steel construction and provide high accuracy, enhanced reliability, and measurement stability. Intrinsically safe options are available for hazardous environments. All are highly configurable for multiple accuracies, outputs, pressure ports, electrical terminations, and pressure ranges.





Series	FP5000		
Pressure connection	1/4-18 NPT female, 1/4-18 NPT male, 7/16-20 UNF male, G1/4 B female, G1/4-B male		
Measurement type	absolute, gage		
Construction	wetted parts Ha C276 and 316L SS: fully welded, oil filled		
Pressure range	35 kPa to 10000 kPa, 10 in-H ₂ 0 to 50 in-H ₂ 0, 1 bar to 350 bar, 0.5 psi to 5000 psi, 30 in-Hg		
Output	4 mA to 20 mA, 0 Vdc to 5 Vdc, 0 Vdc to 10 Vdc		
Accuracy	0.2 %FSS BFSL (Standard accuarcy), 0.1 %FSS BFSL (High accuracy)		
	Comp. Temperature Range	TEB for Standard Accuracy	TEB for High Accuracy
	0°C to 60°C [40°F to 140°F]	< ±0.75 %FSS	< ±0.5 %FSS
Thermal Effects Error Band	-20°C to 80°C [0°F to 176°F]	< ±1.5 %FSS	< ±1.0 %FSS
	-40°C to 85°C [-40°F to 185°F]	< ±2.25 %FSS	< ±1.5 %FSS
	-40°C to 125°C [-40°F to 50°F]	< ±2.25 %FSS	< ±1.5 %FSS
Amplified	yes		
	Connector	Operating Temperature	Sealing
	PT-02A-10-6P	-40°C to 125°C [-40°F to 250°F]	IP67
Operating temperature range	DIN FORM A	-40°C to 125°C [-40°F to 250°F]	IP65
	DIN FORM C	-40°C to 90°C [-40°F to 194°F]	IP65
	Integral cable	-40°C to 80°C [-40°F to 176°F]	IP67
Compensated temperature range	0°C to 60°C [40°F to 140°F], -20°C to 80°C [0°F to 176°F], -40°C to 85°C [-40°F to 185°F], -40°C to 125°C [-40°F to 50°F]		
Electrical connection	PT-02A-10-6P, DIN FORM A, DIN FORM C, Integral cable		
Dimensions (H x W x D)	varies by pressure port and electrical connector type		
Certifications/Approvals	RoHS, CE approved		
Features	media-isolated piezoresistive silicon pressure sensor: compensated for sensor offset, sensitivity, temperature effects, and non-linearity to offer improved thermal stability and accuracy; Hastelloy® C276 and 316L stainless steel wetted parts provide durability with abrasive or corrosive media; full analog path, high speed, no digitization error signal; zero point null adjustment		





TJE		A-105		
1/4-18 NPT female, 1/4-18 NPT male , 7/16-20 UNF female, 7/16-20 UNF male, G 1/4 male, 9/16-18 UNF female, VCR male, VCR female		7/16-20 UNF male, M12 x 1.5 male		
absolute, gage		gage		
wetted parts 17-4 PH SS or 15-5 PH S	wetted parts 17-4 PH SS or 15-5 PH SS, 304 SS case material; fully welded		wetted parts 17-4 PH SS, Iconel X-750, fully welded, flush diaphragm	
1 psi to 60,000 psi		300 psi to 15,000 psi		
4 mA to 20 mA, 0 Vdc to 5 Vdc, 0 Vdc to 10 Vdc, mV/V		4 mA to 20 mA, 1 Vdc to 5 Vdc, 1 Vdc to 10 Vdc, mV/V		
±0.10 % full scale		±0.5 % full scale		
Characteristic	Measure	Characteristic	Measure	
Temperature, compensated	15°C to 70°C [60°F to 160°F]	Temperature, compensated	-1°C to 70°C [30 °F to 160 °F] (amplified) 15°C to 70°C [60°F to 160°F] (unamplified)	
Temperature effect, zero	0.0025 %FS/°F	Temperature effect, zero	0.015 %FS/°F (amplified) 0.01 %FS/°F (unamplified)	
Temperature effect, span	0.0025 %Reading/°F	Temperature effect, span	0.02 %Reading/°F (amplified & unamplified)	
Sealing	hermetically sealed, IP68/NEMA 6P	Sealing	-	
yes, amplified and unamplified		yes, amplified and unamplified		

-70°C to 160°C [-100°F to 325°F] up to 1000 psi, -70°C to 120°C [-100°F to 250°F] 1500 psi and above

-29°C to 85°C [-20°F to 185°F) amplified -54°C to 149°C (-65°F to 300°F) unamplified

15°C to 70°C [60°F to 160°F], -20°C to 85°C [0°F to 185°F], -30°C to 55°C [-20°F to 130°F], -30°C to 90°C [-20°F to 200°F], 20°C to 120°C [70°F to 250°F], 20°C to 160°C [70°F to 325°F], 20°C to 200°C [70°F to 400°F], -50°C to 120°C [-65°F to 250°F]	15°C to 70°C [60°F to 160°F], 0°C to 55°C [30°F to 130°F], -30°C to 90°C [-20°F to 200°F], 20°C to 120°C [70°F to 250°F], 20°C to 200°C [70°F to 400°F], -50°C to 120°C [-65°F to 250°F]
Bendix PT 6-pin, Amphenol MS 6-pin, integrated cable, 1/2-14 conduit with PVC cable, DIN 43650	Bendix PT 6 pin, integrated teflon cable, integrated submersible cable
varies by pressure port and electrical connector type	varies by electrical connector type
RoHS, CE approved	RoHS, CE approved
strain gage based transducer and features a unique "true gage" design that utilizes a second welded stainless steel diaphragm that hermetically seals the strain gage circuitry	manufactured with a unitized stainless steel diaphragm. The advantage of this type of

scrain gage based transducer and reactives a unique true gage design that utilizes a second welded stainless steel diaphragm that hermetically seals the strain gage circuitry from atmospheric contamination. This design references the primary pressure sensing diaphragm to the atmosphere, and provides a stable zero regardless of the transducer environment

manufactured with a unitized stainless steel diaphragm. The advantage of this type of design is that a thin diaphragm and heavy sidewalls are made from one piece of stainless steel. This unitized diaphragm is rugged, but at the same time can be made thin enough to measure low pressures

Warranty/Remedy

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