Honeywell

IP Series Industrial Pressure Sensor Platform

DESCRIPTION

Honeywell's Industrial Pressure (IP) series is a new platform of general purpose pressure sensors designed to offer repeatable, reliable, and accurate pressure measurements over time. These rugged, stainless steel, all-welded pressure sensors are preconfigured with tailored features and options for a wide range of demanding applications. All models are designed to work with a variety of media and built to provide consistent performance in harsh environments. Configurations for voltage and current measurements are fully temperature compensated and calibrated for pressure ranges from 0.5 bar to 700 bar and 5 psi to 10K psi.

Customers can choose from two different accuracies to meet their specific application requirements:

IPG1 offers ±0.15 % BFSL (Best Fit Straight Line) accuracy **IPG2** offers ±0.25 % BFSL (Best Fit Straight Line) accuracy

FEATURES

- Rugged design all welded, 300 series stainless steel and Hastelloy[®]
- Accuracy options: ±0.15 %, ±0.25 % BFSL
- Voltage outputs
- Current output
- Total error band that includes non-linearity, repeatability and hysteresis as well as temperature error.
- Pre-configured pressure sensor package with most commonly requested options
- IP65 rated for protection for harsh environments
- <2 ms response time provides accurate, high-speed measurement
- CE and RoHS compliant*

APPLICATIONS

- General industrial process control
- Factory automation/Industrial equipment
- Medical equipment systems
- Pump/Compressor control
 - Power generation
 - Wind
 - Propulsion
- Transportation
 - Construction equipment
 - Rail equipment testing

* RoHS compliant for 100 psi to 5000 psi [7 bar to 350 bar]



TABLE 1. PRESSURE RANGE SPECIFICATIONS (AT 25 °C [77 °F])

psi (gauge)														
Pressure	5	10	15	25		30		50		75		100		150
Proof pressure	20	40	60	100	C	120		200		300		400		450
Burst pressure	1000	1000	1000	10	00	1000		1000)	1000	C	1000		1500
	psi (gauge)													
Pressure	200	250	500	750	100	0	1500		3000	į	5000	75	00	10000
Proof pressure	600	750	1500	2250	200	0	3000		6000	-	7500	15	000	15000
Burst pressure	2000	2500	5000	7500	100	00	1500	0	30000	ć	30000	15	000	15000

bar (gauge)								
0.5	1	2	3.5	4	7	10	16	25
2	4	8	14	16	28	30	48	75
100	100	100	100	100	100	100	160	250
	2	2 4	2 4 8	0.5 1 2 3.5 2 4 8 14	0.5 1 2 3.5 4 2 4 8 14 16	0.5 1 2 3.5 4 7 2 4 8 14 16 28	0.5 1 2 3.5 4 7 10 2 4 8 14 16 28 30	0.5 1 2 3.5 4 7 10 16 2 4 8 14 16 28 30 48

bar (gauge)							
Pressure	40	60	100	160	250	350	700
Proof pressure	80	120	200	320	500	700	1000
Burst pressure	400	600	1000	1600	2068	2068	1000

TABLE 2. PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

Parameter	Characteristic
Material in contact with media	Port: 300 Series stainless steel, Hastelloy®
Housing material	300 Series stainless steel
Weight	
100 psi to 5000 psi	158 g [5.6 oz] (1/4 BSP port with DIN 43650)
5 psi to 75 psi and 7500 psi to 10000	186 g [6 oz] (1/4 BSP port with DIN 43650)
psi (0.5 bar to 3.5 bar, 700 bar)	
Shock	100 g peak [11 ms]
Vibration	MIL-STD-810C, Figure 514.2-5, Curve AK, Table 514.2-V, Random Vibration Test
	[overall g rms = 20.7 min.]
Compensated temperature range	
100 psi to 5000 psi	-10 °C to 85 °C [14 °F to 185 °F]
5 psi to 75 psi and 7500 psi to 10000	4 °C to 60 °C [40 °F to 140 °F]
psi (0.5 bar to 3.5 bar, 700 bar)	
Operating & storage temperature range	-40 °C to 125 °C [-40 °F to 257 °F]
Approvals	CE, RoHS* (*RoHS compliant for 100 psi to 5000 psi [7 bar to 350 bar])

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TABLE 3. ELECTRICAL SPECIFICATIONS (AT 25 °C [77 °F] AND A RATED EXCITATION UNLESS OTHERWISE NOTED)

Parameter	Current	Regulated	Regulated
Zero output	4 mA	0.25 Vdc	0.5 Vdc
Full scale span (FSS)	16 mA (4 mA to 20 mA)	10 Vdc (0.25 Vdc to 10.25 Vdc)	4 Vdc (0.5 Vdc to 4.5 Vdc)
Excitation	9.5 Vdc to 30 Vdc	14 Vdc to 30 Vdc	7 Vdc to 30 Vdc
Supply current	N/A	5 mA typ. (17 mA max.)	5 mA typ. (17 mA max.)
Source (nominal)	N/A	1 mA	1 mA
Sink (nominal)	N/A	1 mA at zero output	1 mA at zero output
Supply rejection ratio	90 dB	90 dB	90 dB
Output impedance	N/A	25 Ω max.	25 Ω max.

TABLE 4. PERFORMANCE SPECIFICATIONS (AT 25 °C [77 °F] AND A RATED EXCITATION UNLESS OTHERWISE NOTED)

Parameter	Characteristic
Response time	<2 ms
Accuracy ¹	±0.15 % BFSL ±0.25 % BFSL
Total error band ²	±2 % FS

Notes:

1. Includes pressure non-linearity (BFSL), pressure hysteresis and non-repeatability. Thermal errors are not included.

2. Includes zero error, span error, thermal effect on zero, thermal effect on span, thermal hysteresis, pressure-non-linearity, pressure hysteresis and non-repeatability

LISTINGS

These are examples of common configurations that are available. Please refer to the "Nomenclature and Order Guide" in the data sheet for all possible product configurations. Order via Test and Measurement's web site http://measurementsensors.honeywell.com or call our Inside Sales Team +1 614-850-5000 or 1-800-848-6564.

Order codes	Description
IPG1BR,1BA, 2Y, 5F, 6M	Model IP, 0.15 % accuracy, 100 psi, -10 °C to 85 °C [14 °F to 185 °F], 4 mA to 20 mA, 1/4 B Female, DIN 43650 con- nector
IPG1CN,1BA, 2Y, 5F, 6M	Model IP, 0.15 % accuracy, 250 psi,, -10 °C to 85 °C [14 °F to 185 °F], 4 mA to 20 mA, 1/4 B Female, DIN 43650 con- nector
IPG1BR,1BA, 2AC, 5F, 6M	Model IP, 0.15 % accuracy, 100 psi, -10 °C to 85 °C [14 °F to 185 °F], 0.5 Vdc to 4.5 Vdc, 1/4 B Female, DIN 43650 connector
IPG1CN,1BA, 2AC, 5F, 6M	Model IP, 0.15 % accuracy, 250 psi, -10 °C to 85 °C [14 °F to 185 °F], 0.5 Vdc to 4.5 Vdc, 1/4 B Female, DIN 43650 connector
IPG1NB,1BA, 2Y, 5F, 6M	Model IP, 0.15 % accuracy, 7 bar, -10 °C to 85 °C [14 °F to 185 °F], 4 mA to 20 mA, 1/4 B Female, DIN 43650 con- nector
IPG1NY,1BA, 2Y, 5F, 6M	Model IP, 0.15 % accuracy, 16 bar, -10 °C to 85 °C [14 °F to 185 °F], 4 mA to 20 mA, 1/4 B Female, DIN 43650 con- nector
IPG1NB,1BA, 2AC, 5F, 6M	Model IP, 0.15 % accuracy, 7 bar, -10 °C to 85 °C [14 °F to 185 °F], 0.5 Vdc to 4.5 Vdc, 1/4 B Female, DIN 43650 con- nector
IPG1NY,1BA, 2AC, 5F, 6M	Model IP, 0.15 % accuracy, 16 bar, -10 °C to 85 °C [14 °F to 185 °F], 0.5 Vdc to 4.5 Vdc, 1/4 B Female, DIN 43650 connector

IP Series

ORDER CODE NOMENCLATURE

Combine the or IPG1BR Order code	1	ode and op BA,2Y,5F,6		ode.								
IPG Pressure Type		1 Accuracy			BR ange		1BA Temperature Compensation	2Y Electrical Output	ſ	5F Pressure Connection		6M Electrical ermination
PG Gauge	1	0.15 %	AT	5 psi	MD	0.5 bar	1BA ⁻¹⁰ °C to 85 °C [14 °F to 185 °F] *	2AC 0.5 Vdc to 4.5 Vdc, CE approved	_	1/4in-18 NPT male	6M	
	2	0.25 %	AV	10 psi	ME	1 bar	1AK ⁴ °C to 60 °C [40 °F to 140 °F] **	2AD 0.25 Vdc to 10.25 Vdc, CE approved	5D	7/16in-20 UNF male	6N	DIN 40050 (Mini)
			BJ	15 psi	MF	2 bar	* 100 psi to 5000 psi available in -10 °C to 85 °C	4 mA to 20 mA, two wire CE approved	5F	1/4 B female		
			BL	25 psi	NA	3.5 bar	[14 °F to 185 °F] ** 5 psi to 75 psi and 7500 ps	si to 10000 psi	5G	1/4 B male		
			BM	30 psi	NB	7 bar	(0.5 bar to 3.5 bar, 700 bar) a 4 °C to 60 °C [40 °F to 140 °F	available in]				
			BN	50 psl	МН	10 bar						
			BP	75 psi	NY	16 bar						
			BR	100 psi	NZ	25 bar						
			CJ	150 psi	PB	40 bar						
			CL	200 psi	PC	60 bar						
			CN	250 psi	ML	100 bar	_					
			CR	500 psi	PD	160 bar						
			СТ	750 psi	NL	250 bar						
			cv	1000 psi	NG	350 bar						
			DJ	1500 psi	NH	700 bar						
			DL	2000 psi								
			DN	3000 psi								
			DR	5000 psi								
			DT	7500 psi								
			DV	10000 psi								

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Industrial Pressure Sensor Platform

ORDER CODES

Order code	Description
IPG1	0.15 % pressure accuracy
IPG2	0.25 % pressure accuracy

RANGE CODES

AT 5 psi AV 10 psi BJ 15 psi BL 25 psi BM 30 psi BN 50 psi BR 100 psi CJ 150 psi CL 200 psi CR 500 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi CV 1000 psi DJ 1500 psi DL 2000 psi DN 3000 psi DR 5000 psi DR 10000 psi MB 7 bar MH 10 bar NY 16 bar NZ 25 bar	Range Code	Available ranges
BJ 15 psi BL 25 psi BM 30 psi BN 50 psi BR 100 psi CJ 150 psi CL 200 psi CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DL 2000 psi DN 3000 psi DR 5000 psi DR 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar	AT	
BL 25 psi BM 30 psi BN 50 psi BR 100 psi CJ 150 psi CL 200 psi CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DN 3000 psi DR 5000 psi DV 1000 psi DN 3000 psi DR 5000 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PD 160 bar <	AV	10 psi
BM 30 psi BN 50 psi BL 75 psi BR 100 psi CJ 150 psi CL 200 psi CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DN 3000 psi DR 5000 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	BJ	15 psi
BN 50 psi BL 75 psi BR 100 psi CJ 150 psi CL 200 psi CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi CV 1000 psi DJ 1500 psi DL 2000 psi DR 5000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar NL 250 bar NG 350 bar	BL	25 psi
BL 75 psi BR 100 psi CJ 150 psi CL 200 psi CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DN 3000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar PD 160 bar NL 250 bar PD 160 bar NL 250 bar PD 160 bar <tr td=""> S00 bar </tr>	BM	30 psi
BR 100 psi CJ 150 psi CL 200 psi CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DN 3000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar NL 250 bar PD 160 bar <tr td=""> <tr td=""> NG</tr></tr>	BN	50 psi
CJ 150 psi CL 200 psi CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DR 5000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar NL 250 bar PD 160 bar <th>BL</th> <th>75 psi</th>	BL	75 psi
CL 200 psi CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DN 3000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	BR	100 psi
CN 250 psi CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DR 5000 psi DR 5000 psi DT 7500 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	CJ	150 psi
CR 500 psi CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DR 5000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar NL 250 bar	CL	200 psi
CT 750 psi CV 1000 psi DJ 1500 psi DL 2000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar NL 250 bar NG 350 bar	CN	250 psi
CV 1000 psi DJ 1500 psi DL 2000 psi DN 3000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	CR	500 psi
DJ 1500 psi DL 2000 psi DN 3000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	СТ	750 psi
DL 2000 psi DN 3000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar PD 160 bar NL 250 bar	CV	1000 psi
DN 3000 psi DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar NL 250 bar NG 350 bar	DJ	1500 psi
DR 5000 psi DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	DL	2000 psi
DT 7500 psi DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	DN	3000 psi
DV 10000 psi MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	DR	5000 psi
MD 0.5 bar ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	DT	7500 psi
ME 1 bar MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar	DV	10000 psi
MF 2 bar NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	MD	0.5 bar
NA 3.5 bar NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	ME	1 bar
NB 7 bar MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	MF	2 bar
MH 10 bar NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	NA	3.5 bar
NY 16 bar NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	NB	7 bar
NZ 25 bar PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	МН	10 bar
PB 40 bar PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	NY	16 bar
PC 60 bar ML 100 bar PD 160 bar NL 250 bar NG 350 bar	NZ	25 bar
ML 100 bar PD 160 bar NL 250 bar NG 350 bar	РВ	40 bar
PD 160 bar NL 250 bar NG 350 bar	PC	60 bar
NL 250 bar NG 350 bar	ML	100 bar
NG 350 bar	PD	160 bar
	NL	250 bar
NH 700 bar	NG	350 bar
	NH	700 bar

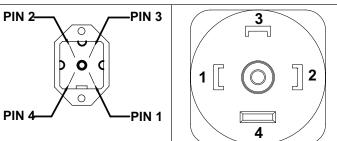
OPTION CODES

Available Ranges	5 psi, 10 psi, 15 psi, 25 psi, 30 psi, 50 psi, 75 psi, 100 psi, 150 psi, 200 psi, 250 psi, 500 psi, 750 psi, 1000 psi, 1500 psi, 2000 psi, 3000 psi, 5000 psi, 7500 psi, 10000 psi, 0.5 bar, 1 bar, 2 bar, 3.5 bar, 7 bar, 10 bar, 16 bar, 25 bar, 40 bar, 60 bar, 100 bar, 160 bar, 250 bar, 350 bar, 700 bar					
Temperature Compensation	1BA. -10 °C to 85 °C [14 °F to 185 °F] * 1AK. 4 °C to 60 °C [40 °F to 140 °F] **					
Electrical Output	 2AC. 0.5 Vdc to 4.5 Vdc, CE approval 2AD. 0.25 Vdc to 10.25 Vdc, CE approval 2Y. 4 mA to 20 mA, two wire, CE approval 					
Pressure Connection	 5B. 1/4 in-18 NPT male 5D. 7/16 in-20 UNF male 5F. 1/4 B female 5G. 1/4 B male 					
Electrical Termination	6M. DIN 43650 standard6N. DIN 40050 (mini)					

* **100 psi to 5000 psi** available in -10 °C to 85 °C [14 °F to 185 °F]

** **5 psi to 75 psi** and **7500 psi to 10000 psi** (0.5 bar to 3.5 bar, 700 bar) available in 4 °C to 60 °C [40 °F to 140 °F]

PIN OUTS



DIN 40050 (Hirschmann), 4-pin	DIN 43650, 4-pin
Regu	lated
1.) + Power	1.) + Power
2.) + Output	2.) + Output
3.) Common	3.) Common
4.) NC	4.) NC
Cur	rent
1.) + Power	1.) + Power
2.) + Output	2.) + Output
3.) NC	3.) NC
4.) NC	4.) NC

Note: Ranges > 1000 psi and 100 bar - end users should take appropriate steps to ensure safety with respect to pressure port attachment.

IP Series

FIGURE 1. MOUNTING DIMENSIONS (FOR PRESSURE RANGES 100 PSI TO 5000 PSI)

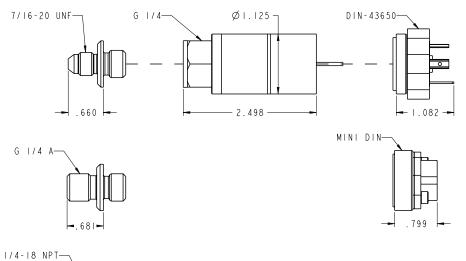
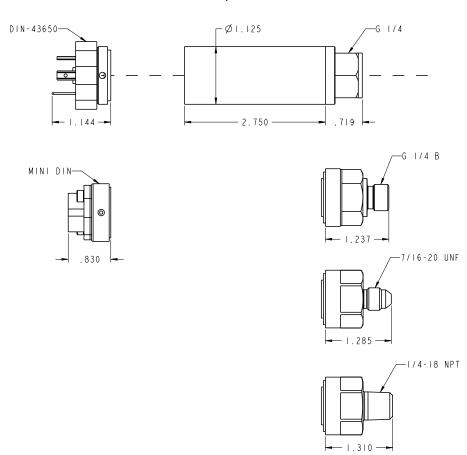


FIGURE 2. MOUNTING DIMENSIONS (FOR PRESSURE RANGES 5 PSI TO 75 PSI, 7500 PSI, AND 10000 PSI)



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Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

WARNING PERSONAL INJURY

• DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING MISUSE OF DOCUMENTATION

- The information presented in this datasheet is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Find out more

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office. To learn more about Honeywell's test and measurement products, call **+1-614-850-5000**, visit **http://measurementsensors. honeywell.com**, or e-mail inquiries to **info.tm@honeywell.com**

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