

Measurement Specialties Sensors' proprietary Microfused™ technology, derived from demanding aerospace applications, employs micromachined silicon piezoresistive strain gages fused with high temperature glass to a high performance stainless steel substrate. **Features:** • Low Cost • Small Size • High Reliability • Fast Response Time • Robust: High Overrange Capability

Dimensions in mm

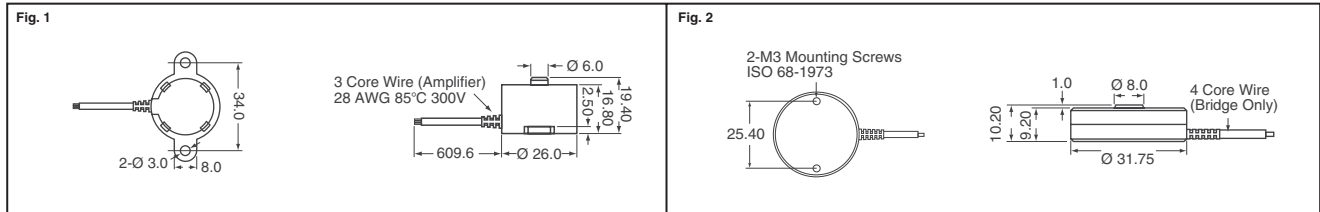


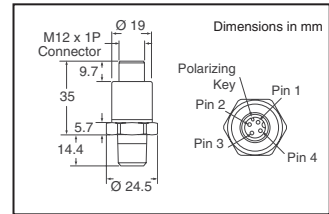
Fig.	Compression/Tension Range (Lbf)	Excitation (VDC)	Output Span Voltage @ ±5% Tolerance	Storage/Operating Temperature Range	Digi-Key Part No.	1	Price Each 10	100	Measurement Part No.
1	10	3.3 - 5.0	0.5 - 4.5 V	-40°C - 85°C	MSP6948-ND	55.61	44.79	34.38	FC2231-0000-0010-L
	25	3.3 - 5.0	0.5 - 4.5 V	-40°C - 85°C	MSP6949-ND	55.61	44.79	34.38	FC2231-0000-0025-L
	50	3.3 - 5.0	0.5 - 4.5 V	-40°C - 85°C	MSP6950-ND	55.61	44.79	34.38	FC2231-0000-0050-L
2	250	5.0	10.0 mV/V	-40°C - 85°C	MSP6952-ND	111.56	86.19	69.98	FC2311-0000-0250-L
	500	5.0	10.0 mV/V	-40°C - 85°C	MSP6953-ND	111.56	86.21	69.98	FC2311-0000-0500-L
	1000	5.0	10.0 mV/V	-40°C - 85°C	MSP6954-ND	111.56	86.19	69.98	FC2311-0000-1000-L
	2000	5.0	10.0 mV/V	-40°C - 85°C	MSP6955-ND	111.56	86.21	69.98	FC2311-0000-2000-L

Δ Compression/Tension Range (Gf)

Senstronics Sensors with Temperature Output

Senstronics Storm Series is a unique product providing a lifetime of accuracy for combined pressure/temperature applications used in harsh media requiring stainless steel wetted parts. The 17-4PH stainless steel sensor design allows for a wide range of temperature and provides a rugged design that can withstand high levels of shock and vibration. **Specifications:** • 1/4 NPTF **Note:** Mating harness included with each sensor.

Operating Pressure Range (PSIG)	Operating Temp. Range	Output Voltage	Supply Voltage Range (V)	Digi-Key Part No.	1	Price Each 10	100	Senstronics Part No.
250	-40°C - 125°C	.5 - 4.5	8 - 30	ST00638-ND	52.80	—	—	ST00638
500	-40°C - 125°C	.5 - 4.5	8 - 30	ST00223-ND	52.80	—	—	ST00223



HUMIREL Sensors

The relative humidity sensors by Humirel are based on capacitive cell technology using a patented solid polymer structure. They are fully interchangeable with no calibration required in standard conditions. Suitable for linear voltage or frequency output circuitry. An NTC thermistor is used for temperature measurement. The RH modules are based on the HS1101LF capacitive humidity sensor and are voltage output devices.

The RH/Temperature modules include a NTC thermistor for temperature measurement and are voltage or frequency output. **Features:** • High reliability and long term stability • Instantaneous desaturation after long periods in saturation conditions • Fast response times • Patented solid polymer structure

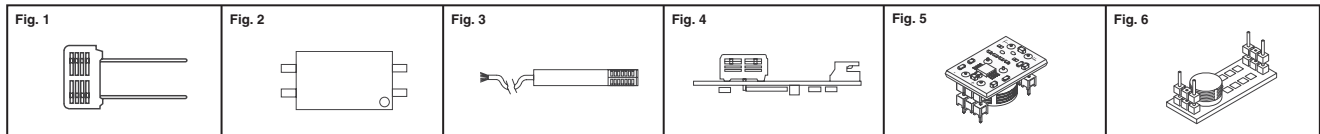
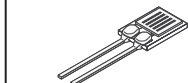


Fig.	Description	Supply Voltage (Typ.)	Nom. Cap. @ 55% RH	Response Time	Nominal Out	RH Measuring Range	Operating Temperature	Digi-Key Part No.	1	10	100	
Sensors												
1	RH Sensor Side Opening	—	180pF	5 Sec.	—	1 - 99% RH	-40°C - 100°C	HS1101-ND	11.85	10.51	8.69	
1	RH Sensor Side Opening	5V	—	—	—	—	-60°C - 140°C	HS1101LF-ND	13.11	11.63	9.84	
2	Temp./RH Sensor SMD Side Opening	5V	—	10 Sec.	—	—	-60°C - 140°C	HTS2030SMD-ND	20.25	17.96	15.19	
Modules												
3	Temp./RH Module Voltage Output	—	—	—	2.48V @ 55% RH	1 - 99% RH	-30°C - 70°C	HTM2500-ND	72.55	64.78	51.82	
4	Temp./RH Module Freq. Output JST Conn.	5V	—	10 Sec.	8750 Hz @ 55% RH	0 - 99% RH	-30°C - 80°C	HTF3226LF-ND	19.63	18.45	14.76	
5	Temp./RH Module Frequency Output Mini	—	—	10 Sec.	6600 Hz @ 55% RH	0 - 100% RH	-40°C - 85°C	HTF3000LFPVH-ND	22.98	21.60	17.28	
6	Temp./RH Module Voltage Output Analog	—	—	10 Sec.	2.48V @ 55% RH	0 - 100% RH	-40°C - 100°C	HTM1735-ND	30.62	28.78	23.02	
Demo Kit includes: 1 x HM1500, 1 x HM1510*, and 5 x HS1101.....									HDEMOKIT-ND	135.50	—	—

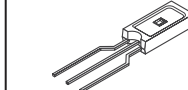
◆ RoHS Compliant * HM1510 - HM1500 with socket at tip to accept HS1101 to test interchangeability

Honeywell Sensing and Control Capacitive Humidity Sensors

HCH-1000 Series



HIH-4000 Series



HCH-1000 Series humidity sensor is a capacitive polymer sensor designed for relative humidity measurement. **Features:** • Polymer sensing offers enhanced resistance against contamination • Enhanced sensitivity and accuracy, fast response **Operating Temperature Range:** -40°C - 120°C **Operating Humidity Range:** 0% - 100% **HIH-4000 Series** humidity sensors are designed specifically for high volume OEM users. **Features:** • Molded thermoset plastic housing • Near linear voltage output vs % RH **Operating Temperature Range:** -40°C - 85°C **Operating Humidity Range:** 0% - 100%

Nom. Cap. (Typ.) @ 55% RH	Sensitivity pF/% RH Min. / Max.	Response Time Sec. (Typ.)	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
HCH-1000 Series							
330pF	0.55/0.65	15	480-2903-ND	7.74	6.88	5.59	HCH-1000-001
			480-2904-ND	7.92	7.04	5.72	HCH-1000-002
Supply Voltage (Vdc) Min. / Max.	Accuracy % RH Min. / Max.	Response Time Sec. (Typ.)	Digi-Key Part No.	Price Each 1	10	100	Honeywell Part No.
HIH-4000 Series							
4/5,8	-3.5/+3.5	15	480-2905-ND	22.92	20.84	16.67	HIH-4000-001
			480-2906-ND	26.24	23.85	19.08	HIH-4000-003

More Product Available Online: www.digikey.com