

# MSI SENSORS Pressure Sensors, Meters, and Load Cells



## RELATIVE HUMIDITY/TEMPERATURE MODULE

### Features:

- Small Size
- Not Affected by Water Immersion
- Full Interchangeability
- Typical 1 to 4 Volt DC Output for 0 to 100% RH at 5 VDC Supply

- Humidity Calibrated Within +/- 2% RH @ 55% RH
- Temperature Measurement through NTC 10kΩ +/-3% Direct Input
- Suitable for 3 to 10 Volts Supply Voltage

### Specifications:

- Storage Temperature: -40 to +105°C
- Humidity Operating Range: 0 to 100%RH
- Temperature Operating Range: -30 to +70°C

For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MSI Sensors Part No.	Fig.	Description	Supply Voltage (Peak)	Price Each		
					1	10	25
824-HTM2500	HTM2500	A	Humidity & Temp. Transducer	12 VDC	65.50	60.91	58.95

## FX1901 SERIES: COMPRESSION LOAD CELLS

### Features:

- Ultra Low Cost High Reliability Design for OEM, Appliance and Medical Applications
- Compression Ranges: 10, 25, 50, 100 lbf
- Compact Coin Cell Package
- Anti-rotation Mounting Features
- Low Cost Connectors Available

### Applications:

- Assembly Forces
- Physical Therapy Devices
- Patient Weight
- Hand Tool Forces
- Chiropractic and Exercise Equipment
- Consumables Monitoring: Copy Equipment and Vending Systems
- Appliance Payload Monitoring: Washer, Dryers, Water Weight, Extraction Efficiency
- Appliance Unbalance Monitoring

For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MSI Sensors Part No.	Fig.	Output	Range	Price Each		
					1	10	25
824-FX19-0-100010010	FX19-0-1-0001-0010	B	20 mV/V FSO	10 Lbf	34.22	30.48	27.62
824-FX19-0-100010025	FX19-0-1-0001-0025	B	20 mV/V FSO	25 Lbf	34.22	30.48	27.62
824-FX19-0-100010050	FX19-0-1-0001-0050	B	20 mV/V FSO	50 Lbf	29.61	27.46	26.77
824-FX19-0-100010100	FX19-0-1-0001-0100	B	20 mV/V FSO	100 Lbf	29.98	27.58	25.38

## ARES SERIES: LOW PRESSURE TRANSDUCERS

### Features:

- Very Low Pressure Ranges
- Solder Reflow Capability
- Barbed Pressure Ports
- PCB Mounted
- Dry/Dry Differential Transducer
- Built in ASIC for Amplified Output
- 0.5-4.5V output

### Applications:

- HVAC
- Medical Equipment
- Environmental Controls
- Portable Monitors
- Volume OEM Applications

For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MSI Sensors Part No.	Fig.	Description	Accuracy FSO	Price Each		
					1	10	25
824-GA100-005WD	GA100-005WD	C	0-5" water	0.25%	38.90	37.34	36.17
824-GA100-010WD	GA100-010WD	C	0-10" water	0.50%	38.90	37.34	36.17
824-GA100-015WD	GA100-015WD	C	0-15" water	0.50%	38.90	37.34	36.17
824-GA100-001PD	GA100-001PD	C	0-1psi	0.75%	38.90	37.34	36.17

## ACCELEROMETERS

### Features:

- ACH-01
- Wide Frequency Response
- Wide Dynamic Range
- Ultra-Low Power
- Low Transverse Sensitivity

For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MSI Sensors Part No.	Fig.	Description	Price Each		
				1	10	25
824-ACH-01-03/10	ACH-01-03/10	D	Single-axis accelerometer with 40" coax cable and female connector	30.47	28.04	25.79
824-ACH-01-04/10	ACH-01-04/10	E	Single-axis accelerometer with 12" wire	25.00	24.00	22.50

## LDT VIBRATION SENSORS

### Features:

- Rugged, Flexible PVDF Piezo Polymer film
- Excellent Dynamic Range
- Laminated for higher voltage output
- Added mass for Alternative Frequency Response (LDTM-028K/L and LDTC only)
- Robust, solderable lead attachment.

### Applications:

- Vibration Sensor
- Flexible Switch
- Impact Sensing
- Anti-theft Alarm
- Appliance Monitoring
- Vehicle Motion Sensor

For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MSI Sensors Part No.	Fig.	Description	Price Each		
				1	10	25
824-LDT0-028K/L	LDT0-028K/L	F	Vibration sensor with crimps	1.78	1.62	1.47
824-LDTM-028K	LDTM-028K	F	Vibration with mass and crimps	1.93	1.75	1.61
824-LDTC-HORIZ	LDTC-HORIZONTAL	F	Vibration with horizontal solder pins	3.00	2.73	2.48
824-LDTC-VERT	LDTC-VERTICAL	F	Vibration with vertical solder pins	3.00	2.73	2.48

## ACCUSTAR® ELECTRONIC CLINOMETERS

### Single Axis Features:

- CE certified
- Rugged plastic housing
- Extremely Accurate
- Linear Range: +/- 45°
- Supply Voltage: +5 to +15V DC

### Dual Axis Features:

- New microprocessor-based electronics
- Two clinometers in one package
- Adaptable design DC powered
- Ratiometric and PW digital output

- Trimmable outputs
- Linear Range: +/- 15°
- Supply Voltage: +5 to +15V DC

For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	MSI Sensors Part No.	Fig.	Description	Price Each		
				1	10	25
<b>Single Axis</b>						
824-02110002-000	02110002-000	G	Ratiometric Vertical Flange	151.50	149.20	146.85
824-02110102-000	02110102-000	G	Ratiometric Horizontal Flange	151.50	149.20	146.85
<b>Dual Axis</b>						
824-02119011-000	02119011-000	H	Clinometer with case	145.12	140.00	135.25
824-09-01-1061A	09-01-1061A	----	Mating Molex connector	4.20	4.12	4.03



**DIMENSIONS: in.**

**A**

**B**

**C**

**D**

**E**

**F**

Sensor w/ Crimp Shown

**G**

**H**