

# FORCE SENSORS

We are a pioneer in the design and manufacture of precision force sensors for applications that require high performance or unique packaging, including electromechanical flight control, test and measurement and ultra-low cost OEM load cells for medium to high volumes. Based on our proprietary piezoresistive silicon strain gage (Microfused) technology, our sensors combine durability and long-term stability in extremely low cost packages. Our flight-qualified sensors monitor secondary load path engagement and supply real-time information from primary flight control forces to the flight data recorder (Black Box). Other applications include force feedback for the autopilot automatic disconnect function and flap jam detection systems. Our OEM and Test and Measurement (T&M) load cells offer custom packaging and electronics with analog or digital outputs, suited for both low and high force environments.



## LOAD CELLS

Low Cost OEM



### MEAS FX19

<b>Package</b>	Low profile "coin cell" design
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Ultra low cost, low strain design</li> <li>• Essentially unlimited cycle life</li> </ul>
<b>Ranges (Lbf)</b>	10, 25, 50, 100
<b>Max. Over-range</b>	2.5X
<b>Output / Span</b>	100 mV
<b>Combined Linearity &amp; Hysteresis</b>	±1.0% FSO
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	Ø25.00 x 29.50 x 8.00
<b>Typical Applications</b>	Consumer OEM, exercise machines, physical therapy, vending machines, appliances, pumps, medical devices



### MEAS FS19

<b>Package</b>	Stainless steel housing with flexible PCB
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Low cost</li> <li>• Small size and light weight</li> </ul>
<b>Ranges (Lbf)</b>	1, 2, 4, 6
<b>Max. Over-range</b>	2X
<b>Output / Span</b>	100 mV
<b>Combined Linearity &amp; Hysteresis</b>	±1% FSO
<b>Operating Temp.</b>	0°C to 40°C
<b>Dimensions (mm)</b>	Ø9.5 x 3.45
<b>Typical Applications</b>	Infusion pump, load sensing, contact sensing, weighing, household appliances



### MEAS FS20

<b>Package</b>	Miniature; drop in replacement for industry standard
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Load cell design operates at very low strains</li> <li>• Not subject to lead die fatigue</li> </ul>
<b>Ranges (Lbf)</b>	1.5, 3
<b>Max. Over-range</b>	10 lbf
<b>Output / Span</b>	1.0 to 4.0 V
<b>Combined Linearity &amp; Hysteresis</b>	±1.0% FSO
<b>Operating Temp.</b>	0°C to 70°C
<b>Dimensions (mm)</b>	30.708 x 17.272 x 8.255
<b>Typical Applications</b>	Infusion pumps, contact sensing, medical devices, consumer appliances



### MEAS FC22

<b>Package</b>	Plastic housing, button, flange mounting
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Low cost button shape</li> <li>• Essentially unlimited cycle life</li> </ul>
<b>Ranges (Lbf)</b>	25, 50, 100
<b>Max. Over-range</b>	2.5X
<b>Output / Span</b>	100 mV, 0.5 to 4.5 VDC
<b>Combined Linearity &amp; Hysteresis</b>	±1.0% FSO
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	Ø26.00 x 42.00 x 19.50
<b>Typical Applications</b>	Infusion pumps, robotics end-effectors, exercise machines, contact sensing, appliances



### MEAS FC23

<b>Package</b>	Stainless steel housing button shape for higher weight loads
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Industry standard low profile all stainless steel design</li> <li>• Resistant to off-axis loads</li> </ul>
<b>Ranges (Lbf)</b>	250, 500, 1,000, 2,000
<b>Max. Over-range</b>	1.5X and 2.5X
<b>Output / Span</b>	100 mV
<b>Combined Linearity &amp; Hysteresis</b>	±1.0% FSO
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	Ø31.75 x 10.20
<b>Typical Applications</b>	Batch weighing, robotics, assembly line force, printing presses, pumps, winch and hoist

## LOAD CELLS

### Standard



#### MEAS ELHM, ELHS

<b>Package</b>	High capacity dual stud or button style
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>Tension and compression or compression only</li> <li>High stability metal foil strain gage (ELHM)</li> <li>High output semiconductor strain gage (ELHS)</li> <li>NIST traceable calibration provided</li> </ul>
<b>Ranges N (Lbf)</b>	1K to 50K (200 to 10K)
<b>Max. Over-range</b>	1.5X FS
<b>Output / Span</b>	10 mV (ELHM) 200 mV FSO (ELHS)
<b>Non-linearity</b>	0.3% to 0.5% FSO
<b>Hysteresis</b>	Combined with linearity
<b>Optional Operating Temp.</b>	-50°C to 120°C (ELHM), -20°C to 80°C (ELHS)
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Robust general purpose, low deflection design, machine tool, linkage forces



#### MEAS FN1010

<b>Package</b>	Load pin design
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>Keyed anti-rotation slot</li> <li>Bidirectional available</li> <li>Optional watertight construction</li> </ul>
<b>Ranges N (Lbf)</b>	10K to 2K (2K to 400K)
<b>Max. Over-range</b>	1.5X FS
<b>Output / Span</b>	±20 mV (4 V; ±5 V; 4 - 20 mA optional)
<b>Non-linearity</b>	±1% FS
<b>Hysteresis</b>	Combined with linearity
<b>Optional Operating Temp.</b>	-20°C to 80°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Crane monitoring, offshore, load-limited devices



#### MEAS FN3002

<b>Package</b>	Very high capacity dual stud
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>Threaded male fitting</li> <li>Integrated amplifier</li> <li>Optional rod end</li> </ul>
<b>Ranges N (Lbf)</b>	10K to 2K (2K to 400K)
<b>Max. Over-range</b>	1.5X FS
<b>Output / Span</b>	±20 mV (4 V; ±5 V optional)
<b>Non-linearity</b>	±0.25% FS
<b>Hysteresis</b>	Combined with linearity
<b>Optional Operating Temp.</b>	-40°C to 150°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Assembly forces, tool force, offshore



#### MEAS FN2420

<b>Package</b>	Very high capacity load button
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>High stiffness</li> <li>Optional load button</li> <li>Optional high level output module</li> </ul>
<b>Ranges N (Lbf)</b>	20K to 5K (4K to 1K)
<b>Max. Over-range</b>	1.5X FS
<b>Output / Span</b>	20 mV (4 V; 5 V)
<b>Non-linearity</b>	±0.25% FS
<b>Hysteresis</b>	Combined with linearity
<b>Optional Operating Temp.</b>	-40°C to 150°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Calibration presses, robotics and effectors, laboratory and research

### Test and Measurement Miniature



#### MEAS ELAF

<b>Package</b>	Button, dual stud
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>Low cost</li> <li>Small, low profile design</li> <li>Low off-axis response</li> <li>NIST traceable calibration provided</li> </ul>
<b>Ranges N (Lbf)</b>	50 to 10K (10 to 2K)
<b>Max. Over-range</b>	2.5X FS
<b>Output / Span</b>	100 mV (0.5 - 4.5 V optional)
<b>Non-linearity</b>	±0.25% FS
<b>Hysteresis</b>	±0.25% FS
<b>Optional Operating Temp.</b>	-40°C to 120°C
<b>Dimensions (mm)</b>	Ø12.70 x 9.53 or 8.80 Ø15.88 x 12.70 or 11.70 Ø31.75 x 10.20
<b>Typical Applications</b>	Theatrical rigging loads, assembly forces, weighing, thrust measurements, product validation testing



#### MEAS XFC200R

<b>Package</b>	Small diameter load button
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>High stiffness</li> <li>High overload capacity</li> <li>Static and dynamic</li> </ul>
<b>Ranges N (Lbf)</b>	2 to 10K (0.4 to 2K)
<b>Max. Over-range</b>	2X to 4X FS
<b>Output / Span</b>	100 mV
<b>Non-linearity</b>	≤ ±0.5% FS
<b>Hysteresis</b>	≤ ±0.5% FS
<b>Optional Operating Temp.</b>	-40°C to 150°C
<b>Dimensions (mm)</b>	Ø10 to Ø16
<b>Typical Applications</b>	Material test, measuring tools, robotics and effectors



#### MEAS XFL212R

<b>Package</b>	Low profile load button
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>Extremely flat</li> <li>Integrated load button</li> <li>Small diameter</li> </ul>
<b>Ranges N (Lbf)</b>	5 to 500 (1 to 100)
<b>Max. Over-range</b>	2X FS
<b>Output / Span</b>	100 mV
<b>Non-linearity</b>	≤ ±0.5% FS
<b>Hysteresis</b>	≤ ±0.5% FS
<b>Optional Operating Temp.</b>	-40°C to 150°C
<b>Dimensions (mm)</b>	Ø12.5 x 3.5
<b>Typical Applications</b>	Dental and biomechanical, surface mount assembly system, production validation test



#### MEAS XFTC300 Series

<b>Package</b>	Low/high capacity dual stud
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>High stiffness</li> <li>High overload capacity</li> <li>Threaded male / female fitting</li> </ul>
<b>Ranges N (Lbf)</b>	2 to 2K (0.4 to 400)
<b>Max. Over-range</b>	2X to 4X FS
<b>Output / Span</b>	100 mV (4 V; ±5 V optional)
<b>Non-linearity</b>	≤ ±0.5% FS
<b>Hysteresis</b>	≤ ±0.5% FS
<b>Optional Operating Temp.</b>	-40°C to 150°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Material test, tool forces, robotics end effectors

## LOAD CELLS

### S-Beam Standard



**MEAS FN3030**

<b>Package</b>	S-beam
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Optional rod ends</li> <li>• Optional high level output</li> <li>• Optional high compensation temperature</li> </ul>
<b>Ranges N (Lbf)</b>	50 to 100K (10 to 20K)
<b>Max. Over-range</b>	1.5X FS
<b>Output / Span</b>	±20 mV (4 V; ±5 V optional)
<b>Non-linearity</b>	±0.1% FS
<b>Optional Operating Temp.</b>	-40°C to 150°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Laboratory and research, process control, customized options



**MEAS FN9620**

<b>Package</b>	S-beam
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• High accuracy</li> <li>• IP68</li> <li>• Entry level</li> </ul>
<b>Ranges N (Lbf)</b>	500 to 10K (100 to 2K)
<b>Max. Over-range</b>	1.5X FS
<b>Output / Span</b>	±10 mV to ±20 mV
<b>Non-linearity</b>	±0.05% FS
<b>Optional Operating Temp.</b>	-40 to 90°C
<b>Dimensions (mm)</b>	56 x 20 x 60
<b>Typical Applications</b>	Test bed, dynamic fatigue testing, robotics and effectors



**MEAS FN3148**

<b>Package</b>	S-beam with stops
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Very high accuracy</li> <li>• High resolution</li> <li>• Mechanical stops</li> </ul>
<b>Ranges N (Lbf)</b>	10 to 2K (2 to 400)
<b>Max. Over-range</b>	5X to 100X FS
<b>Output / Span</b>	±20 mV (4 V; ±5 V optional)
<b>Non-linearity</b>	< ±0.05% FS
<b>Optional Operating Temp.</b>	-40°C to 120°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Product validation tests, medical instruments, weighing



**MEAS FN7110**

<b>Package</b>	Dual S-beam range
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• High resolution</li> <li>• Optional high level output</li> <li>• Double range</li> </ul>
<b>Ranges N (Lbf)</b>	10, 100 to 1K, 10K (2, 20 to 200, 2K)
<b>Max. Over-range</b>	1.2X FS of the higher range
<b>Output / Span</b>	±20 mV (4 V; ±5 V optional)
<b>Non-linearity</b>	±0.1% FS of each range
<b>Optional Operating Temp.</b>	-20°C to 80°C
<b>Dimensions (mm)</b>	60 x 30 x 100
<b>Typical Applications</b>	Product validation tests, process control, robotics and effectors

### Low Profile and Pan-cake



**MEAS FMT**

<b>Package</b>	Washer
<b>Operating Mode</b>	Compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• High stiffness</li> <li>• 1.5X over-range</li> <li>• High temperature</li> </ul>
<b>Ranges N (Lbf)</b>	20K to 320K (4K to 64K)
<b>Max. Over-range</b>	1.5X FS
<b>Output / Span</b>	15 to 20 mV
<b>Non-linearity</b>	1 to 5% FS
<b>Hysteresis</b>	Combined with linearity
<b>Optional Operating Temp.</b>	-40°C to 150°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Robotics, process control, bolt clamping for bridges



**MEAS FN3050, FN3000**

<b>Package</b>	Pan-cake
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• High stability</li> <li>• All FN3050 have same housing</li> <li>• Optional high level output</li> </ul>
<b>Ranges N (Lbf)</b>	100 to 1000K (20 to 200K)
<b>Max. Over-range</b>	1.5X FS (10X FS with stops)
<b>Output / Span</b>	15 to 20 mV (4 V; ±5 V optional)
<b>Non-linearity</b>	±0.1% FS
<b>Hysteresis</b>	±0.1% FS
<b>Optional Operating Temp.</b>	-40°C to 150 °C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Static fatigue tests, laboratory and research, robotics



**MEAS FN9630, FN9635**

<b>Package</b>	Very high accuracy pan-cake
<b>Operating Mode</b>	Tension and compression
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• High stability</li> <li>• High accuracy</li> <li>• Minimal cross effect</li> <li>• Connection flange supplied (FN9635)</li> </ul>
<b>Ranges N (Lbf)</b>	10K to 200K (2K to 40K)
<b>Max. Over-range</b>	1.5 x FS
<b>Output / Span</b>	20 mV
<b>Non-linearity</b>	±0.08% FS
<b>Hysteresis</b>	±0.08% FS
<b>Optional Operating Temp.</b>	-40°C to 90°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Static fatigue tests, weighing calibration, robotics



**MEAS FN7325**

<b>Package</b>	Custom design and ranges available upon request
<b>Operating Mode</b>	Multiaxial force and torque
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Measures load and torque in 3 directions</li> <li>• Fatigue rated</li> <li>• Minimal cross effects</li> </ul>
<b>Ranges N (Lbf)</b>	5K to 250K (1K to 50K)
<b>Max. Over-range</b>	1.2X FS
<b>Output / Span</b>	±100 to 150 mV (4 V; ±5 V optional)
<b>Non-linearity</b>	±1% FS
<b>Hysteresis</b>	Combined with linearity
<b>Optional Operating Temp.</b>	-20°C to 80°C
<b>Dimensions (mm)</b>	Application dependent
<b>Typical Applications</b>	Structure testing, crash testing, industrial test benches

## AUTOMOTIVE DESIGN AND TEST SENSORS



### MEAS FN4055

Package	Seat belt sensor
Operating Mode	Tension
Unique Features	<ul style="list-style-type: none"> <li>• Low operating ranges</li> <li>• Protected against overload</li> <li>• Compatible with most seat belts</li> </ul>
Ranges N (Lbf)	100 to 300N (20 to 60)
Max. Over-range	5X FS
Output / Span	20 mV
Non-linearity	±0.25% FS
Hysteresis	Combined with linearity
Optional Operating Temp.	-40 to 120 °C
Dimensions (mm)	63.5 x 63.5 x 12.7
Typical Applications	Auto crash testing, tension at the belt receptacle



### MEAS FN4070, FN4080

Package	Seat belt buckle sensor
Operating Mode	Tension
Unique Features	<ul style="list-style-type: none"> <li>• High operating ranges</li> <li>• Detachable tongue and cable</li> <li>• Compatible with most seat belts</li> </ul>
Ranges N (Lbf)	250 to 50K (50 to 10K)
Max. Over-range	1.5X FS
Output / Span	15 to 20 mV
Non-linearity	±0.5% FS
Hysteresis	Combined with linearity
Optional Operating Temp.	-20°C to 80°C
Dimensions (mm)	Application dependent
Typical Applications	Auto crash testing, tension at the belt receptacle



### MEAS FN2317

Package	Hand brake
Operating Mode	Compression
Unique Features	<ul style="list-style-type: none"> <li>• Easily installed</li> <li>• Ergonomic design</li> <li>• Fits most vehicles</li> </ul>
Ranges N (Lbf)	500 to 1K (100 to 200)
Max. Over-range	1.5X FS
Output / Span	±20 mV (4 V optional)
Non-linearity	±0.5% FS
Hysteresis	Combined with linearity
Optional Operating Temp.	-20°C to 80°C
Dimensions (mm)	100 x 20 x 15
Typical Applications	Hand brake, test bed



### MEAS FN2114, FN2570

Package	Brake pedal
Operating Mode	Compression
Unique Features	<ul style="list-style-type: none"> <li>• High accuracy</li> <li>• Extra flat</li> <li>• Compact</li> <li>• Rugged design</li> </ul>
Ranges N (Lbf)	200 to 3K (40 to 600)
Max. Over-range	1.5X FS
Output / Span	15 to 20 mV (4 V optional)
Non-linearity	< ±1% FS (FN2114) < ±2.5% FS (FN2570)
Hysteresis	Combined with linearity
Optional Operating Temp.	-20°C to 80°C
Dimensions (mm)	Application dependent
Typical Applications	Brake pedal, clutch pedal, test bed



### MEAS FN7080

Package	Gear stick design
Operating Mode	Multi-axial
Unique Features	<ul style="list-style-type: none"> <li>• Measures force in three directions</li> <li>• Replaces gear knob</li> <li>• Ease of mounting</li> </ul>
Ranges N (Lbf)	50 to 500 (10 to 100)
Max. Over-range	1.2X FS
Output / Span	±7.5 mV (4 V; ±5 V optional)
Non-linearity	< ±0.3% FS
Hysteresis	Combined with linearity
Optional Operating Temp.	-20°C to 80°C
Dimensions (mm)	Ø25 spherical
Typical Applications	Change gear force measurement, roughness of material



### MEAS FCA7300

Package	Steering wheel adaptable
Operating Mode	Multi-sensing
Unique Features	<ul style="list-style-type: none"> <li>• Dual torque and angle range</li> <li>• Steering velocity measurement</li> <li>• Fits all road vehicles</li> </ul>
Ranges N (Lbf)	10 to 200 Nm (7 lbf-ft to 150 lbf-ft)
Max. Over-range	10X FS
Output / Span	±10 V
Non-linearity	±0.1% FS
Hysteresis	±0.1% FS
Optional Operating Temp.	-20°C to 80°C
Dimensions (mm)	Ø195 x 50
Typical Applications	On car road test, truck and buses steering test, armored vehicles steering test



### MEAS EL20-S458

Package	Special purpose design optimized for automotive crash test environments
Operating Mode	Seat belt tension
Unique Features	<ul style="list-style-type: none"> <li>• Low mass titanium design for use in high shock environments</li> <li>• Mass optimized to minimize acceleration induced errors during SAE J2570 ATD and ISO 6487</li> <li>• Optional high level and linearized outputs</li> <li>• Smoothed edge design and optional slotted titanium axles eliminate drag errors and dummy damage</li> <li>• Ultra robust cable is user replaceable</li> </ul>
Ranges N (Lbf)	5K and 15K (1,000 and 3,200)
Max. Over-range	2X
Output / Span	10 mV (0.5 to 4.5 V optional)
Non-linearity	1.0% to 3.0% FSO.
Hysteresis	Combined with linearity
Optional Operating Temp.	-40°C to 120°C
Dimensions (mm)	Application dependent
Typical Applications	Seat belt forces, safety and restraint system crash test, parachute tether and riser forces

## ELECTRONICS / DISPLAYS



### MEAS ARD154

<b>Package</b>	Din rail mountable
<b>Operating Mode</b>	Signal conditioning for wheatstone bridge sensors
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Suited for full bridge strain gage sensors</li> <li>• 120 to 10,000 Ohm bridge impedance</li> <li>• <math>\pm 10</math> V analog or 0/4 to 20 mA current output</li> <li>• 2 kHz or 20 kHz max. bandwidth</li> <li>• Calibration pushbutton from 0.1 to 10 mV/V</li> </ul>
<b>Ranges N (Lbf)</b>	Application dependent
<b>Output / Span</b>	$\pm 10$ V max.; 4 to 20 mA or 0 to 20 mA
<b>Accuracy</b>	0.01% FS
<b>Optional Operating Temp.</b>	-10°C to 60°C
<b>Dimensions (mm)</b>	99 x 17.5 x 112
<b>Typical Applications</b>	Test stands, power plants, manufacturing systems, test and measurement, test bed regulation, automat interfaces



### MEAS CPA150

<b>Package</b>	Hand held indicator
<b>Operating Mode</b>	Portable display suited for strain gage type sensors
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Suited for 1 or 2 sensors</li> <li>• 7½ digits (<math>\pm 9999999</math>)</li> <li>• Front panel programming</li> <li>• 45 hour life battery</li> <li>• Calibration pushbutton from 0.1 to 10 mV/V</li> </ul>
<b>Ranges N (Lbf)</b>	Application dependent
<b>Output / Span</b>	Display only
<b>Accuracy</b>	$\pm 0.005\%$ FS
<b>Optional Operating Temp.</b>	-10°C to 50°C
<b>Dimensions (mm)</b>	90 x 34 x 152 (3.54 x 1.34 x 5.98)
<b>Typical Applications</b>	Outdoor punctual measurements, test and measurement, portable calibration device



### MEAS M210

<b>Package</b>	Front panel or housed in case
<b>Operating Mode</b>	Signal conditioning and display meter
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Analog output: <math>\pm 10</math> V</li> <li>• Red LED display: <math>\pm 2,000</math> count</li> <li>• High bandwidth: 1,000 Hz at -3 dB</li> <li>• Low noise level</li> </ul>
<b>Ranges N (Lbf)</b>	Application dependent
<b>Output / Span</b>	$\pm 10$ VDC
<b>Accuracy</b>	$\pm 0.05\%$ FS
<b>Optional Operating Temp.</b>	0°C to 50°C
<b>Dimensions (mm)</b>	96 x 48 x 155
<b>Typical Applications</b>	High bandwidth test bed display, monitoring, laboratory and research, process control equipment



### MEAS M905

<b>Package</b>	Front panel or housed in case
<b>Operating Mode</b>	Display suited for process or strain gage type sensors
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Suited for process or strain gage type sensors</li> <li>• 5 digits: -19999 to 19999</li> <li>• Front panel programming</li> <li>• 11 point scaling</li> <li>• Plug-in option boards</li> </ul>
<b>Ranges N (Lbf)</b>	Application dependent
<b>Output / Span</b>	$\pm 10$ VDC or 4 to 20 mA with option
<b>Accuracy</b>	$\pm 15$ bits, 20 sample/sec
<b>Optional Operating Temp.</b>	-10°C to 60°C
<b>Dimensions (mm)</b>	96 x 48 x 60
<b>Typical Applications</b>	Display on test bed, monitoring, laboratory and research