

Model 140 Remote In-Line DC Amplifier



Measurement Specialties, Inc. (NASDAQ: MEAS) has just released to production the [Model 140 remote in-line DC amplifier](#). Designed to be used with bridge-type mV output transducers, the amplifier features five user-selectable gain settings with a gain accuracy of $\pm 0.5\%$ and a wide bandwidth to 100kHz. The Model 140 offers a unique auto-zero function (patent pending) that allows the operator to zero the transducer offset voltage to within $\pm 1.5\text{mV}$. This may be achieved remotely or by pressing the on-board push button at the user's command, prior to the taking of data. This feature ensures a more accurate measurement as it removes any offset drift from the sensor.

The Model 140 operates from 5 through 30Vdc excitation and can attain a zero output of $\pm 1.5\text{mV}$ after auto zero actuation. Weighing only 33 grams, this small device is contained in a rugged, anodized aluminum housing that is sealed against humidity and can operate from -20°C through $+70^{\circ}\text{C}$. Combine this with reverse polarity protection and low noise, you have a remote in-line amplifier well suited for applications involving pressure/level indication, static acceleration testing, load monitoring and strain measurement.

Ease of installation is ensured as both the input and output are commonly-found Binder Connectors. For optional accessories, Measurement Specialties offers a cable assembly (379-XXX, 5x #30 AWG) and mating connector plug (AC-G04239). The "XXX" designates length in inches with standard cable length being 120 inches.

Measurement Specialties, Inc. designs and manufactures sensors and sensor-based systems. The company produces a wide variety of sensors and transducers to measure precise ranges of physical characteristics such as pressure, force, vibration, torque, position, temperature, humidity, fluid properties, mass air flow and photo optics. Measurement Specialties uses multiple advanced technologies – including piezo-resistive, electro-optic, electro-magnetic, variable reluctance, magneto resistive, digital encoders, thermistors, thermocouples, RTDs, capacitive, resonant beam, application specific integrated circuits (ASICs), micro-electromechanical systems (MEMS), piezoelectric polymers and strain gauges to engineer sensors that operate accurately and cost-effectively in customers' applications.

For more information about Measurement Specialties and our products, email t&m@meas-spec.com or visit us at www.meas-spec.com.