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New DIN-Rail Amplifier for DC Strain Gage Transducers

(January 2010, Amherst, NY) The new Series AP5103 DIN-rail Amplifier is a low cost, general-purpose, single channel signal conditioner which is compatible with standard DIN-Rail mounting systems. The AP5103 is designed for input of pressure, force, torque, weight, and other variables measured by standard DC-excited strain gage transducers.

The AP5103 allows the user to select filtered analog output of $\pm 5\text{Vdc}$, $\pm 10\text{Vdc}$, or 4-20 mA and will accommodate a wide range of DC strain gage sensors with bridge resistance of 120 to 10K Ohm. The Series AP5103 is especially user-friendly, with front panel accessible settings for mode, volts, current, filter, excitation, and zero. A wide zero and span adjustment and switch-based shunt cal feature make this versatile unit perfect for a variety of applications.

DIN-Rail design permits easy access to screw terminal connections for power, analog output, shunt, and sensor signals. The AP5103 provides exceptional signal stability and accuracy over a wide range of sensor inputs, and a powerful low-pass active filter removes unwanted high-frequency signal components. Bridge excitation of 2.5 or 5.0 Vdc is field-selectable and the input power range is 11-28Vdc.

The AP5103 is easy-to-use, and has a power status indicator light and over-range indicator light. This unit is an excellent complement to mV/V miniature load cells, force sensors, and miniature pressure transducers which are too small to accommodate on-board electronics or those applications where temperatures at the sensor require that electronics be located elsewhere. The AP5103 DIN-rail signal conditioner is also available as a fully-enclosed in-line housing as the Series AP5201. Available now, priced from \$375.

We invite you to visit the Stellar Technology website (www.stellartech.com) and review our comprehensive offering of load cells, force sensors, pressure transducers and transmitters, temperature transducers, LVDTs, and instrumentation. For detailed specifications or to request a quote please call (716) 250-1900 or email sales@stellartech.com. Stellar Technology, Inc. is an ISO9001:2000-certified company located at 237 Commerce Drive, Amherst, NY 14228, USA.