Model 8555 analog to frequency converter offers a cost effective solution for a single or multiple channel PLC I/O system. It is designed to operate into PLC high speed counter inputs. The input range of 0 to 50 mV makes the 8555 compatible with most strain gage based load cell or pressure transducer outputs. The built-in 10V excitation supply is capable of driving one 350 ohm bridge. The 8555 output for all modules is linear to 0.01% with a very high accuracy of better than 0.1%. The output is an isolated floating optocoupler transistor which provides DC isolation from the input and DC power. Connections are made easily accessible with screw clamp terminal blocks.
Field Calibration:
1. Connect up the strain gage and power.
2. Select Full Scale Input Range.
3. Apply Zero load to strain gage.
4. Adjust Zero potentiometer for 0 Hz.
5. Apply full scale load to strain gage.
6. Adjust Span potentiometer for 5000 Hz (or desired full scale frequency.)
7. Repeat steps 2 through 5 as necessary.