## Micro-C Displays—Compatible with UniMeasure Digital Transducers!

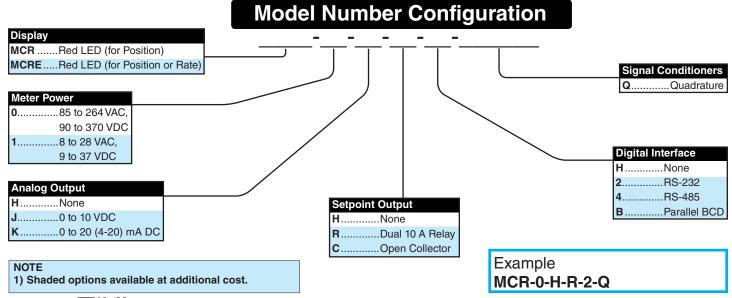
The **Micro-C** digital panel meter may be used with UniMeasure digital position transducers for the measurement of linear position or velocity. The microprocessor

based Micro C features easy front panel programming, terminal strip detachable connectors on the rear face and a wide range of options to allow an exact configuration for the application.

With the Quadrature Signal Conditioner, the Micro C is capable of receiving quadrature inputs from UniMeasure transducers with either standard 5 VDC TTL output or optional 5 VDC differential output. Transducer electrical power is received from the meter. With simple jumper connections, counting mode may be set at X1, X2 or X4 to increase resolution accordingly. The meter may be scaled by using an offset and scale factor derived from the calibration constant supplied with UniMeasure transducers or scaling may be done using the two point method to give an output directly in engineering units.

With the extended version, MCRE, the Micro C can be configured to read rate from the pulse signal of UniMeasure digital transducers. Rate counting is possible in X1, X2 or X4 counting mode. The rate may be programmed to read in engineering units. The Micro-C display has two alarm indicators with setpoints that may be programmed from the front panel pushbuttons. Optional open collector transistors or dual 10 amp relays allow outputs to be set above or below the setpoint in a latched or non-latching mode. Time delays of the outputs are digitally selectable. 0 to 10 V or 0 to 20 mA (4 to 20 mA) analog outputs are available to drive chart recorders or for transmission to a central control unit. Adding RS-232 or RS-485 enables the displays to communicate with PLC's or computers. Software provided with these options allow programming the meter from a host computer.

## SPECIFICATIONS **EXCITATION POWER SUPPLIES** Type ...... 6 LED, 7-segment, 14.2 mm (.56") Outputs ...... 5 VDC, 5%, 100 mA max high digits and 3 LED indicators 10 VDC, 5%, 120 mA max 24 VDC, 5%, 50 mA max Color.....Red Range .....-999,999 to +999,999 Isolation (power ground) ....... Safety rated to 250 VAC CONVERSION PERIOD **OPERATING POWER** Gate Time...... 0 TO 199.99 sec. Voltage (std)......85 to 264 VAC, 90 to 370 VDC Technique (frequency)......1/Period time Voltage (opt) ...... 8 to 28 VAC, 9 to 37 VDC Rate...... Gate time + 10 ms + 2 periods of Frequency ...... DC and 47 to 440 Hz the input signal **ENVIRONMENTAL** ACCURACY AT 25°C Operating Temperature ...... 0°C to +55°C Time Base (crystal) ...... Calibrated to ±1 Count Storage Temperature.....-40°C to +85°C Operating Humidity ......95% at 40°C, non-condensing Span Tempco ..... ±1PPM/°C Long Term Drift.....±5PPM/year CMV (DC to 60Hz) ...... Safety rated to 250 Vac SIGNAL INPUT SPECIFICATIONS, CHANNELS A & B High Level Input Max ......250 VAC High Level Input Min ...... 0.25 VAC Low Level Input Max ..... 50 VAC Low Level Input Min ...... 0.01 VAC Input Coupling...... AC or DC Frequency Response ...... 200 kHz max



## DIMENSIONAL INFORMATION •

