MICRO-C DISPLAY

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

DISPLAY	
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Туре6	LED, 7-segment, 14.2 mm (.56")
hi	gh digits and 3 LED indicators
ColorR	ed
Range9	99,999 to +999,999
CONVERSION PERIOD	
Gate Time0	TO 199.99 sec.
Technique (frequency) 1/	Period time
RateG	ate time + 10 ms + 2 periods of
th	e input signal
ACCURACY AT 25°C	
Time Base (crystal)C	alibrated to ±1 Count
V to F Converter0.	015%FS ± 1 Count
Span Tempco±	1PPM/°C
Long Term Drift±	5PPM/year
CMV (DC to 60Hz)Si	afety rated to 250 Vac
ENVIRONMENTAL	
Operating Temperature0	°C to +55°C
Storage Temperature4	0°C to +85°C
Operating Humidity	5% at 40°C non-condensing



CE

SIGNAL INFOT SPECIFICATIONS, CHANNELS A & B		
High Level Input Max250 VAC		
High Level Input Min0.25 VAC		
Low Level Input Max50 VAC		
Low Level Input Min0.01 VAC		
Input CouplingAC or DC		
Frequency Response 200 kHz max		
EXCITATION POWER SUPPLIES		
Outputs5 VDC, 5%, 100 mA max		
10 VDC, 5%, 120 mA max		
24 VDC, 5%, 50 mA max		
Isolation (power ground) Safety rated to 250 VAC		
OPERATING POWER		
Voltage (std)		
Voltage (opt)8 to 28 VAC, 9 to 37 VDC		
Frequency DC and 47 to 440 Hz		

MODEL NUMBER CONFIGURATION



DISPLAY SUPPLEMENTAL DATA

DIMENSIONAL INFORMATION



[dimensions in brackets are millimeters]