DISCONTINUED!!!!!!!!!!! SEE MODEL: NTM-0

PROCESS & CURRENT LOOP INPUT DIGITAL PANEL METER 3½ & 4½ DIGIT

· RS232/422 · Peak & Hold · 3-State BCD · Digital Limit

· Excitation/Compliance · Analog Output · PC Compatible

MODEL 207



complete process system Digital Panel Meter.

DESCRIPTION:

In addition to conditioning the input signal, the 207 has a built-in analog comparator (field adjustable) to detect when the input signal is out of range. When an out of range condition occurs, the 207 is switched to a flashing mode. It will flash the display and its over-range logic output is switched to logic 1 for external use. Factory

A standard screw type connector for power and signal input is used. The I/O ports (top board) have industry standard flat cable connectors according to the function. All mating connectors are supplied at no charge.

adjustment of the detector is set at 10% below the false zero and 100%

of full scale. The optional internal excitation source makes the 207 a

DISPLAY: High efficiency $\pm 3\frac{1}{2}$, $\pm 4\frac{1}{2}$ digit LED, with or without dummy digit. Dummy digit is programmable as a x 10 multiplier or alpha A, C, F, H, E, L, P, etc.

INPUT RANGES: Industry's most popular ranges are standard. Contact Otek for special input ranges or scaling.

EXCITATION (COMPLIANCE) AND ANALOG CONTROL OUTPUTS: The most popular combinations to match transducers are available. See Specifications & Ordering Information. The 4-20mA outputs are ideal for Proportional Control.

DIGITAL CONTROL OUTPUT OPTIONS

- Option 1:BCD PARALLEL TRISTATE NON-ISOLATED, TTL compatible, Bit addressable, with a 34 Pin Flat Ribbon connector.
- Option 2: BCD PARALLEL TRISTATE OPTO-ISOLATED to 1500VDC, TTL compatible bit addressable, with a 34 Pin Flat Ribbon connector.
- Option 3:DIGITAL PEAK & HOLD WITH RECALL holds and recalls the greatest positive and negative peak when enabled, otherwise it displays current data. A 34 Pin Flat Ribbon connector is included.
- Option 4: DIGITAL LIMIT compares internal BCD data to an external BCD word (Multiplex Format) from Thumbwheel Switches or any TTL source. Its two 1 amp SPDT relays (for over and under) control external loads. It is field programmable for hysterisis of 10 or 100 counts. A 34 Pin Flat Ribbon connector is supplied.
- Option 5: RS232C converts the "ULTIMA 200" to a data acquisition system. Up to 32 stations and baud rates from 150-19,200. See Model A81-2450.

FFATURES

- •Built-in 24VDC Compliance
- Detects Transmitter Under, Over-range and Open/Shor
- Low Input Impedance and Wide Zero and Span
- •1/8 DIN & NEMA Compatible Cut-Out
- 3½, 4½ Digit LED Display with/wo Dummy Digit
- 7 Power Inputs
- •MTBF: 100,000 Hours

Option 6: RS422 This is the high-speed, longer distance version of RS232C with same features. See Section 7 Model A81-2450.

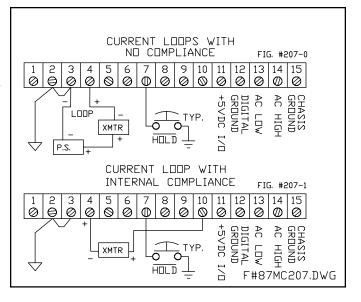
- Option 7: PARALLEL BCD WITH PEAK & HOLD: This option combines both options (1 & 3) on the same board.
- Option 8:8-BIT ENCODED BCD MUX: The output of the A/D (same as display) is presented on an 8 bit BUS containing the BCD (1, 2, 4, 8) plus over-range, under-range, and sign are encoded in 3 lines. A separate strobe BCD word line is included. This system is compatible to any 8 bit BUS system. Address selection is available.
- Option 9:8-BITENCODED BCD OPTO-ISOLATED: Same as option 8 except it is opto-isolated to 1500VRMS. Power requirement is 5VDC at 100mA.

POWER INPUTS: Seven options are available: 5VDC non-isolated, 120VAC, 50-60Hz & 240VAC, 50-60Hz isolated to 1200VDC or RMS, 10VAC, 40-400Hznon-isolated, 12VDC non-isolated, 7-32VDC non-isolated and 7-32VDC isolated.

CASE: U.L. approved ABS Polycarbonate 94VO rated. Meets 1/8 DIN and NEMA panel cut out requirements.

FULL SCALE, DECIMAL POINTS, AND OTHER ADJUST-MENTS are easily accessible by removing the bezel and filter.

TYPICAL CONNECTIONS

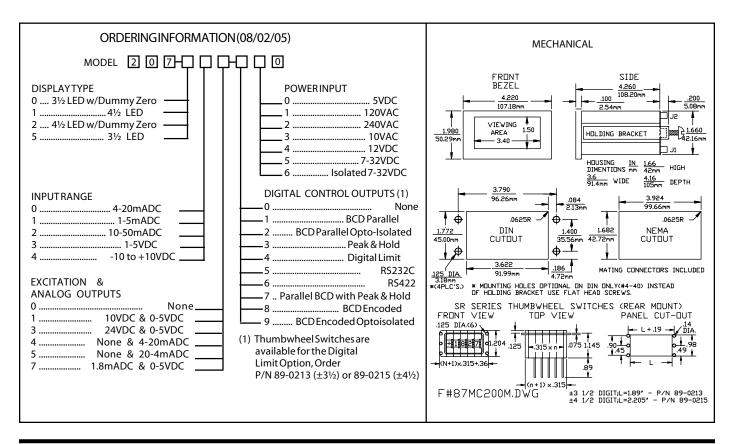


DISCONTINUED!!!!!!!!!!!! SEE MODEL: NTM-0

SPECIFICATIONS AT 25°C

MAINFRAME					
Input Single Ended, Bipolar Zero and Full Scale Adjustment ±500 Counts for 3½ Digit, +5000 for 4½					
CMRR					
Accuracy & Linearity					
RANGE	INPUT	DISPLAY	PROTECTIO	N	
4-20mA	50	0-1,000/10,000	50mA		
1-5mA	200	0-1,000/10,000	50mA		
	20	0-1,000/10,000	100mA		
1-5VDC	100K	0-1,000/10,000	300VDC		
±10VDC	100K	0-1,000/10,000	300VDC		
DISPLAY					
LED ±3½ & 4½ LED ±4½ w/Dummy Digit			•••••	0.6" 0.4"	
MTRE (LED)	Jummy Digit.	100	 000 Hours	0.4	
MTBF (LED) 100,000 Hours					
EXCITATION (COMPLIANCE)/ANALOG OUTPUTS (Non-isolated from digital ground)					
10VDC Excitation ±1% 30mA Max.					
0-5VDC Output±1% Accuracy, Max. Load: 5mA					
24VDC Compliance					
4-20mA Output ±1% Accuracy, 24VDC Compliance					
20-4mA Output ±1% Accuracy, 24VDC Compliance					
1.8mA Excitation±1% at 24VDC Compliance					
NOTE: All outputs are short circuit protected.					
DIGITAL CONTROL OUTPUTS (All Positive True Logic)					

Tristate Parallel BCD					
Histate raialiei DCD					
3-State Par, BCD Opto-Isolated	10LPTTL Loads, 1500VDC isolation, 20mA at 5VDC				
Digital Limit Absolute comparison, 1 amp relays at 120VAC resistive, parallel BCD serial digit select type (multiplexed)					
Thumbwheel Switches	BCD w/Diodes				
Peak & Hold+ or - peaks, user recall/clear by logic or switch contact					
BCD MultiplexParallel digit BCD, serial digit select MSD to LSD scan					
Parallel BCD with Peak & Hold is 3 (same specifications).	is the combination of options 1 &				
RS232/422	See Model A81-2450				
POWER INPUTS					
5VDC	50mA				
Display	LED: 140mA				
Plus Excitation option of 150mA, plus digital control output of 100mA. Worst case requirements (Fully Loaded): 500mA					
120VAC					
240VAC					
7-32VDC	300mA				
12VDC	300mA				



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