# **SECTION C Specifications**

## **ELECTRONICS/FIRMWARE**

**Display Update Rate A/D** Conversion Rate Setpoint update rate **Displayed Resolution** 

**Display update rate Internal Resolution** Auto Zero Range **Automatic Zero Track** Non-linearity **Multi-Point Linearization Full Scale Capacity** Weigh Units

## ELECTRICAL

(450 external power supply) **Power Module Power Input (AC) Power Input (DC)** Fuse (450/455 internal power supply) **Power Module** Fuse

#### DATA ENTRY REGISTERS **Data Registers**

## COMMUNICATIONS

**Communication Port** Custom RS-232 Output Transmit

**Baud Rate** Protocol

## LOAD CELL

**Load Cell Connection** Power Signal Range Load Cell Excitation Load Cell Current

## **ENCLOSURE**

Enclosure **Switch Panel Type** 

Switch Panel Controls (m450)

Selectable, 0.1 - 20 sec. 60 conv./sec. Response time to full scale, selectable 0.06 sec. to 8 sec. 15 updates/sec. Recommended maximum: 25,000d Ultimate maximum: 100.000d Selectable up to 20/sec.(0.05s)+/-500,000 counts Selectable from 0.01% to 100% Full Scale 0.1 to 20.0 displayed counts with selectable delay 0.005% of Full Scale (input dependent) Up to 5 Calibration Points Fully Programmable Up to six separate units are selectable from an internal library of unit conversions, one of which may be user-defined for tons, grains, troy-ounces, etc.

120 VAC 60 Hz input, 16 VAC output, wall mount 10 VAC to 28 VAC, 50/60 Hz standard 10 VDC to 28 VDC compatible 2.0 amp Slo-Blo

90 to 250 VAC 60 Hz input 250V @ 0.5 amp Slo-Blo

1 numeric incremental register, 2 setpoint target registers Net and Gross Accumulation registers

Port 1: Bi-directional RS-232 (software/hardware or no handshake) Custom Transmit Table for formatting special labels, transactions, etc. Continuous, On Request (motion inhibited selectable) or once per weighment Selectable from 150 through 19,200 Selectable

Six lead with sense, or four lead acceptable Drives up to (8) 350 ohm load cells 0.1 to 10 mv/v at Full Scale 10 VDC, short circuit protected 290 mA. maximum

Stainless steel washdown, designed to NEMA 4X specifications Molded elastomeric with switch travel. Self-sealing, chemically resistant. Zero, Tare, Print, Units, Enter and CLR. Additional

<b>Operating Temperature</b>		
Size w/o Stand	(m450)	
<b>Overall Size</b>		
Weight		

# **DISPLAY**

least

Display Six fully active digits plus 10 character dot matrix, vacuum fluorescent 0.75" high digits **Display Size** At 104% of capacity **Display Blanking Display Increments** Range: .00001 to 500 with 24 selections, Decimal Point (Selectable), significant digit selectable at 1, 2 or 5. **Negative Gross Display** Fully bipolar up to 99,999 **Polarity Symbol** sign to left of most significant active digit **Status Indicator** 10 character dot matrix display

-10 to +40 degrees C

functions accessed with the Select key.

9.38" Wide by 6.43" High by 1.88" Deep 11" Wide by 7.23" High by 3.70" Deep (M450) approx. 6 lb., (M455) approx. 6.5 lbs.

#### ADDITIONAL INFORMATION

Time Interval Data Ouput	Set RS-232 transmission based on selected time intervals
Remote Keys	1, remote key connection available
Setpoints	2 Open Drain Type Outputs (FET)
Approvals	USA: NTEP COC #93-092 (firmware before 7/20/95)
	USA: NTEP COC #95-145 (firmware starting 7/20/95)
	Canadian W&M: (AM-5001, Rev. 1)
Warranty	One year covering defective parts and workmanship

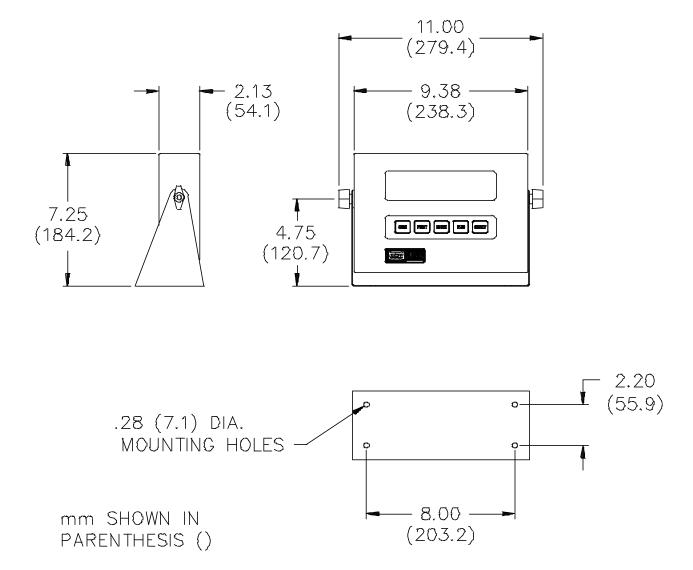
#### **OPTIONS**

<b>Battery-backed Time and Date</b>
Cable Options
<b>Compatible Peripherals</b>
Memory Expansion
<b>Relay Module Option</b>

Option Module Peripheral cables Printers, Remote Displays, etc. Up to 2Kbytes Total Up to 2 relay outputs

## MOUNTING DIMENSIONS

Refer to Figures C-1 thru C-3, 450/455 indicator mounting dimensions information (all models).



## Figure C-1 Model 450 indicator mounting holes and overall dimensions

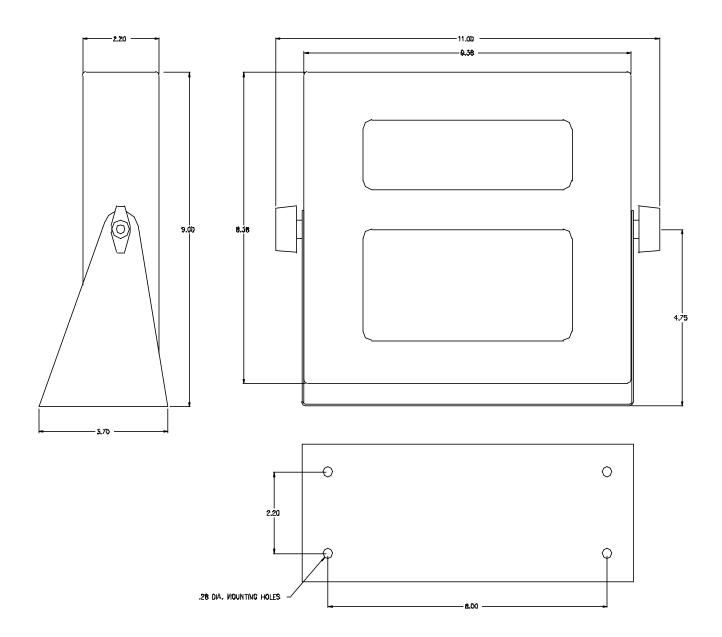


Figure C-2 Model 455 indicator mounting holes and overall dimensions

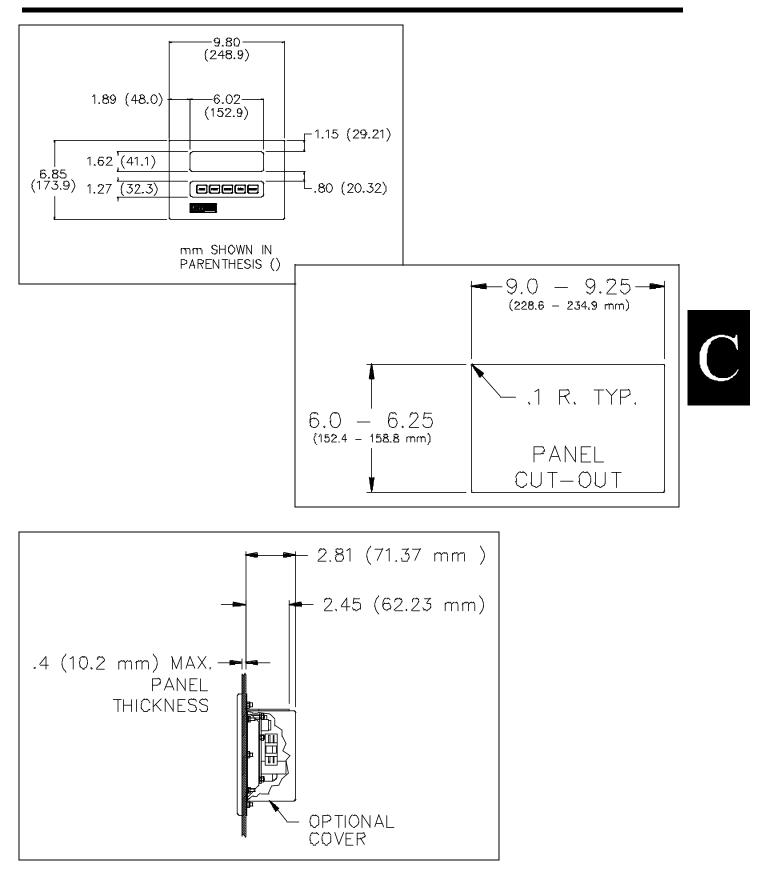


Figure C-3 Model 450 Panel mount version cut out and mounting dimensions