



# FOX METER, INC

INSTRUMENTATION FOR INDUSTRY

## FM500 Series

Low cost 4-1/2 digit unit  
**VELONEX®** replacement units (ruggedized)  
 easy mounting with steel bezel standard, large display  
 convenient pot adjustments for scaling and calibration

### Functional Choices

- **FM500** - 4-1/2 digit display only: (+/-1.9.9.9.9) DC volts, DC amps, 4 - 20 mA, process
- **FM550** - 4-1/2 digit display with BCD data: (+/-1.9.9.9.9) DC volts, DC amps, 4 - 20 mA, process

### General Specifications

#### Base meter

- **Size** - fits 1/16 DIN cutouts
- **Display** - bright .6" tall, high efficiency LED
- **Bezel** - black textured, two part epoxy enamel
- **Display window** - red non-glare cast acrylic
- **Sealing** - NEMA 4X gasketing is available at extra cost
- **Controls** - pots for scaling and calibration, plug jumpers for decimal point location and selecting polarity
- **Connections** - 34-pin ribbon style connector is standard, see optional connectors for variations
- **Accuracy** - a function of calibration and scaling
- **Linearity** - < 0.05%
- **Temperature Drift** - < 0.1% / 20 °C change in ambient temperature

#### Outputs

- **Strobed, 4-bit parallel data** - buffered to TTL drive levels, 4-BCD data bits, 5-digit strobes, conversion enable, polarity bit

#### Power supplies

- **4.8 to 5.2 VDC** - 110 mA maximum

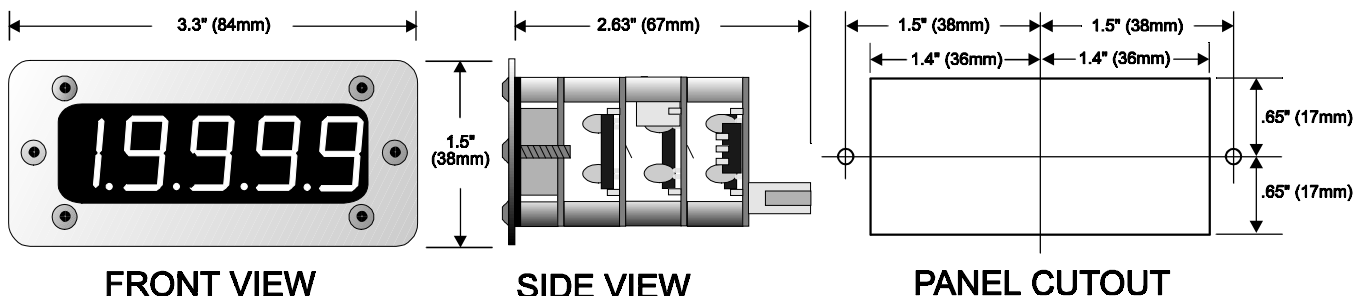
#### Connection options

- **SP 217** - 30-pin PCB gold plated edge connector, matches Velonex® unit pin out exactly - \$45.00
- **SP 218** - two twisted wire pairs, one for power and one for signal, for non-data units - \$0.00 adder

#### NEMA 4X Gasket

- **Q400-0109** - Seals unit from front when mounted to a panel, cost - \$12.00

### FM800 Series Mechanical Specifications



# FM500 Series

# 0.6" 4-1/2 Digit Mini

(DC, Volts & Amps, 4 to 20 mA, Process)

Model numbers consist of two prefix letters (FM), a family number(5), a function number, a power supply number and a three digit signal input configuration number.

## BASE METER OPTION



- FM50 - 4-1/2 digit display only..... \$219
- FM55 - 4-1/2 digit display with BCD data..... \$259

## POWER SUPPLY OPTIONS



- [2] - 4.8 VDC to 5.2 VDC..... \$10

## SIGNAL INPUT OPTIONS



### DC VOLTAGE

- [140] +/- 200.0 mV DC..... \$7
- [141] +/- 2.000 V DC..... \$7
- [142] +/- 20.00 V DC..... \$7
- [143] +/- 200.0 V DC..... \$7
- [144] +/- 500.0 V DC..... \$7

### DC VOLTAGE, DIFFERENTIAL, FINE ZERO

- [150] +/- 200.0 mV DC..... \$35
- [151] +/- 2.000 V DC..... \$35
- [152] +/- 20.00 V DC..... \$35
- [153] +/- 200.0 V DC..... \$35
- [154] +/- 500.0 V DC..... \$35

### DC CURRENT - requires external shunt

- [160] +/- 50 mV DC shunt input..... \$7
- [161] +/- 100 mV DC shunt input..... \$7

### DC CURRENT - internal shunt

- [171] +/- 2.000 mA DC..... \$14
- [172] +/- 20.00 mA DC..... \$14
- [173] +/- 200.0 mA DC..... \$14
- [174] +/- 2.000 A DC..... \$14

### PROCESS SIGNALS

- [212] 4 to 20 mA DC ..... \$7

### DC CURRENT - includes external shunt

- [234] +/- 2.000 A DC..... \$37
- [235] +/- 20.00 A DC..... \$37
- [236] +/- 200.0 A DC..... \$37