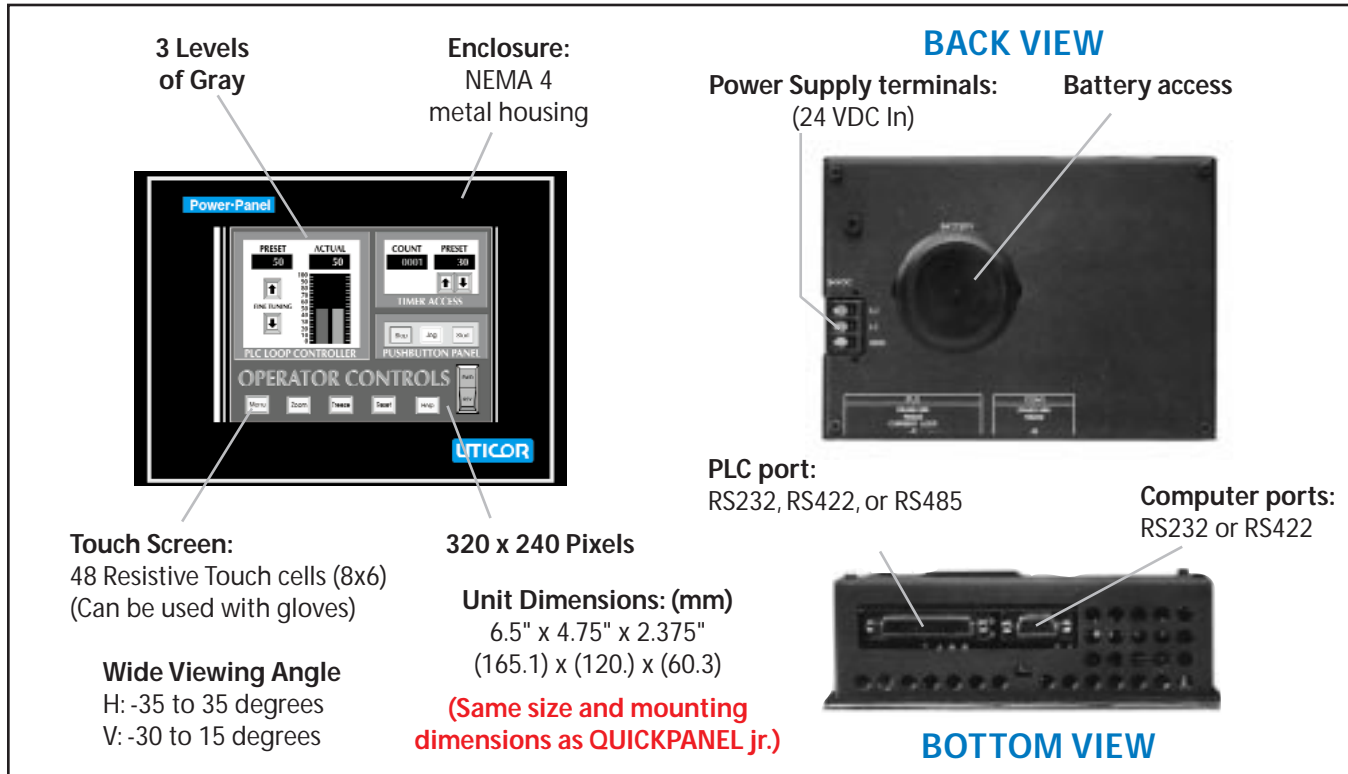


# 5" Monochrome Models



## SPECIFICATIONS

### INPUT POWER:

24 VDC nominal (21.6-32 VDC),  
18 W, Fuse-0.75 A

### DISPLAY TYPE:

4.6" Diagonal  
Monochrome LCD

### DISPLAY SIZE:

3.75" x 2.8" (95.3 x 71.1 mm)

### DISPLAY BRIGHTNESS:

90 NITS

### USER MEMORY:

256 Kbytes, battery backed up

### BATTERY LIFE:

1 year, if unit is OFF  
5 years, if unit is ON

### REAL-TIME CLOCK:

Standard: +1, -2 min. per  
month error maximum

### TEMPERATURE:

**Operating:**  
32 to 113 °F (0 to +45 °C)

**Storage:**  
-4 to +140 °F (-20 to +60 °C)

### HUMIDITY:

10-95% R.H., noncondensing

### ELECTRICAL NOISE TOLERANCE:

NEMA ICS2-230 showering arc  
test, ANSI C37.90a-1974 SWC  
Level C Chattering Relay Test

### BURN-IN:

All products are temperature cycled  
96 hours and then are fully,  
functionally tested.

### AGENCY APPROVALS:

UL/CSA Class 1, DIV. II  
compliant/CE

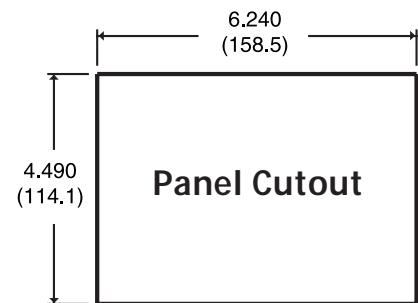
### VIBRATION

Vertical Axis only  
(normal installation position)  
**Frequency:** 5 to 500 Hz  
**Sweep time:** 11 min. (6 sweeps)  
**Amplitude:** 1.000 in.  
**Maximum Acceleration:** 1.5 g

### SHOCK:

Vertical axis only (force down)  
**Acceleration:** 40 g  
**Duration:** 11 msec.  
**Waveform:** Half sine wave  
**No. of impacts:** 10

### MOUNTING DIMENSIONS:



# 5" Color Models

**Bright 16 color display**

**Enclosure: NEMA 4 metal housing**

**Computer ports: RS232 or RS422**

**PLC port: RS232, RS422, or RS485**

**BACK VIEW:**

**Battery access**

**Power Supply terminals: (24 VDC In)**

**Dip Switches to configure PLC port AUX COM2**

**Touch Screen: 48 Resistive Touch cells (8x6) (Can be used with gloves)**

**320 x 240 Pixels**

**Wide Viewing Angle Unit Dimensions: (mm)**  
 H: -35 to 25 degrees 8.625" x 6.50" x 3.85"  
 V: -25 to 25 degrees (219.1) x (165.1) x (97.8)

## SPECIFICATIONS

### INPUT POWER:

24 VDC nominal (21.6-32 VDC),  
18 W, Fuse-1.5 A

### Display Type:

5.1" Diagonal  
Color LCD Display, 16 colors

### Display Size:

4.04" x 3.03" (102.6 x 77 mm)

### Display Brightness:

150 NITS

### User Memory:

256 Kbytes, battery backed up

### Battery Life:

1 year, if unit is OFF  
5 years, if unit is ON

### Real-Time Clock:

Standard: +1, -2 min. per  
month error maximum

### Temperature:

**Operating:**  
32 to 122 °F (0 to +50 °C)

**Storage:**  
-40 to +149 °F (-40 to +65 °C)

### Humidity:

10-95% R.H., noncondensing

### Electrical Noise Tolerance:

NEMA ICS2-230 showering arc  
test, ANSI C37.90a-1974 SWC  
Level C Chattering Relay Test

### Burn-In:

All products are temperature cycled  
96 hours and then are fully,  
functionally tested.

### Agency Approvals:

UL/CSA Class 1, DIV. II  
compliant/CE

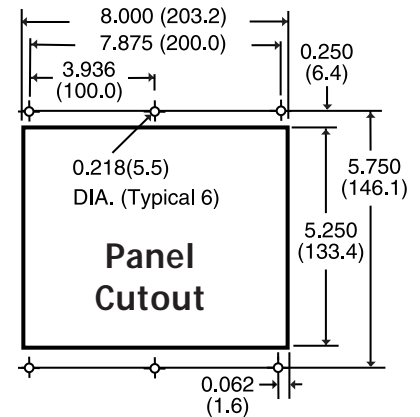
### Vibration:

Vertical Axis only  
(normal installation position)  
**Frequency:** 5 to 500 Hz  
**Sweep time:** 11 min. (6 sweeps)  
**Amplitude:** 1.000 in.  
**Maximum Acceleration:** 1.5 g

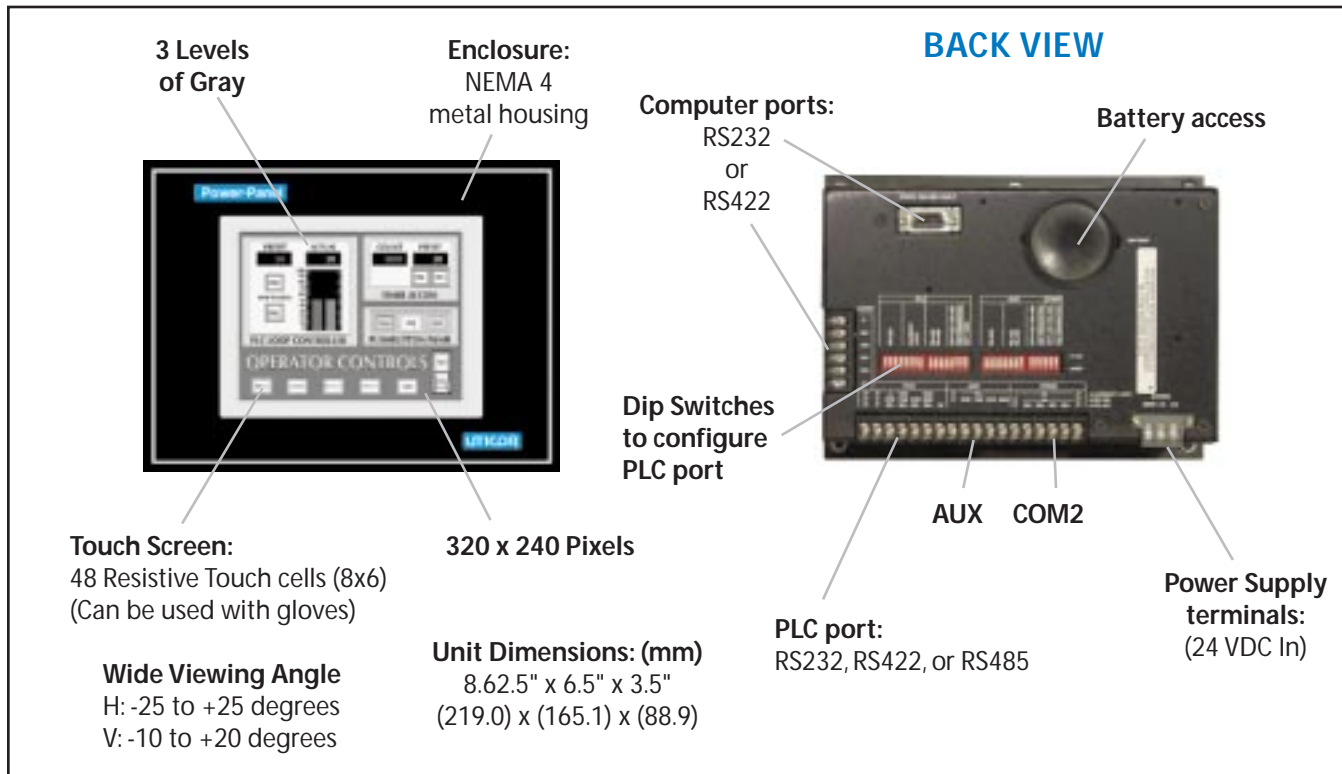
### Shock:

Vertical axis only (force down)  
**Acceleration:** 40 g  
**Duration:** 11 msec.  
**Waveform:** Half sine wave  
**No. of impacts:** 10

### MOUNTING DIMENSIONS:



# 6" Monochrome Model



## SPECIFICATIONS

### INPUT POWER:

24 VDC nominal (21.6-32 VDC),  
12 W, Fuse-0.75 A

### Display Type:

5.6" Diagonal,  
Monochrome LCD

### Display Size:

4.7" x 3.5" (119.4 x 88.9mm)

### Display Brightness:

60 NITS

### User Memory:

256 Kbytes, battery backed up

### Battery Life:

1 year, if unit is OFF  
5 years, if unit is ON

### Real-Time Clock:

Standard: +1, -2 min. per  
month error maximum

### Temperatures:

**Operating:**  
32 to +104 °F (0 to +40 °C)

**Storage:**  
4 to +140 °F (-20 to +60 °C)

### Humidity:

10-95% R.H., noncondensing

### Electrical Noise Tolerance:

NEMA ICS2-230 showering arc  
test, ANSI C37.90a-1974 SWC  
Level C Chattering Relay Test

### Burn-In:

All products are temperature cycled  
96 hours and then are fully,  
functionally tested.

### Agency Approvals:

UL/CSA Class 1, DIV. II  
compliant/CE

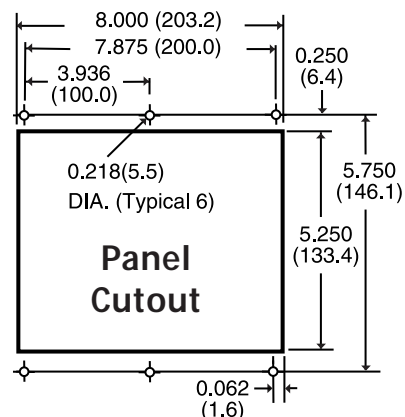
### Vibration:

Vertical Axis only  
(normal installation position)  
**Frequency:** 5 to 500 Hz  
**Sweep time:** 11 min. (6 sweeps)  
**Amplitude:** 1.000 in.  
**Maximum Acceleration:** 1.5 g

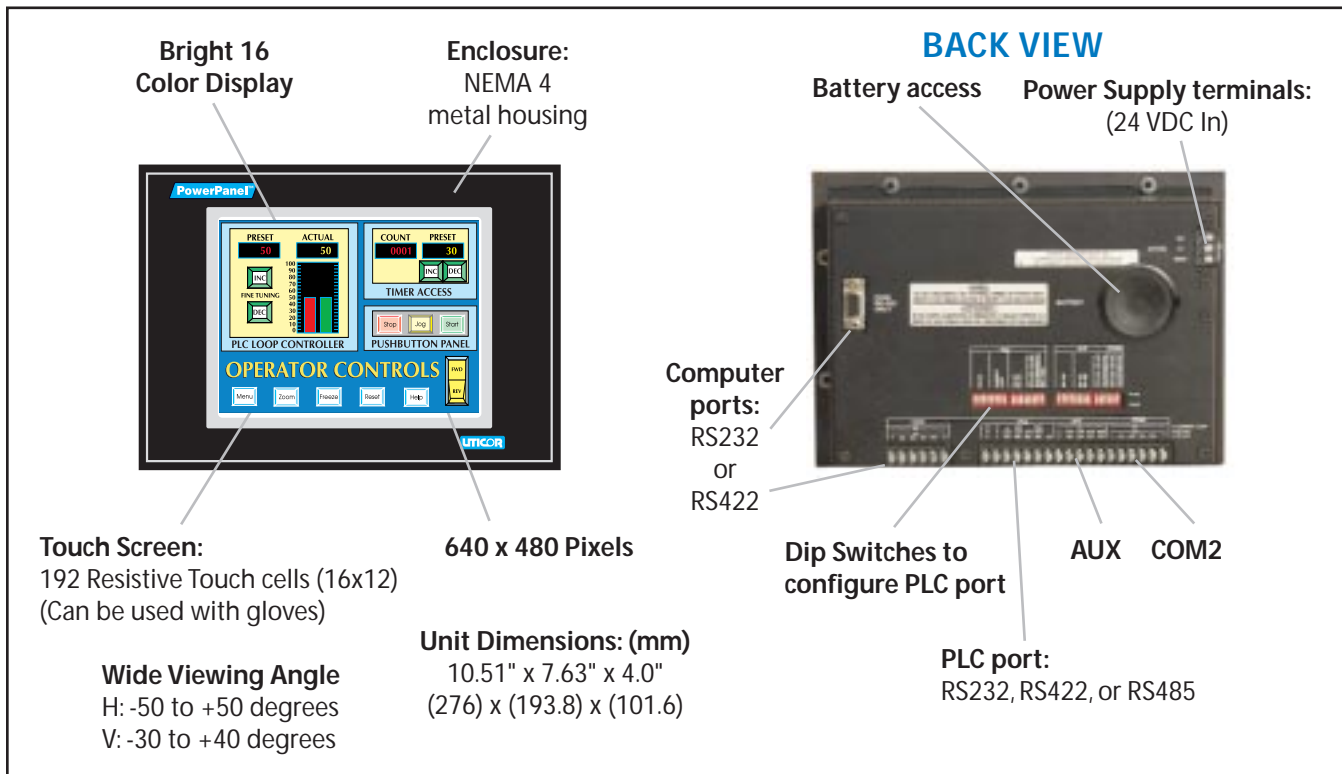
### Shock:

Vertical axis only (force down)  
**Acceleration:** 40 g  
**Duration:** 11 msec.  
**Waveform:** Half sine wave  
**No. of impacts:** 10

## MOUNTING DIMENSIONS:



# 8" Color Model



## SPECIFICATIONS

### INPUT POWER:

24 VDC nominal (21.6-32 VDC),  
24 W, Fuse-1.5 A

### Display Type:

7.7" Diagonal,  
Color LCD

### Display Size:

6.315" x 4.768"  
(160.4 x 121.1 mm)

### Display Brightness:

150 NITS

### User Memory:

256 Kbytes, battery backed up

### Battery Life:

1 year, if unit is OFF  
5 years, if unit is ON

### Real-Time Clock:

Standard: +1, -2 min. per  
month error maximum

### Temperatures:

Operating Temperature:  
32 to 104 °F (0 to 40 °C)

Storage Temperature:  
-4 to +140 °F (-20 to +60 °C)

### Humidity:

10-85% R.H., noncondensing

### Electrical Noise Tolerance:

NEMA ICS2-230 showering arc  
test, ANSI C37.90a-1974 SWC  
Level C Chattering Relay Test

### Burn-In:

All products are temperature cycled  
96 hours and then are fully,  
functionally tested.

### Agency Approvals:

UL/CSA Class 1, DIV. II  
compliant/CE

### Vibration:

Vertical Axis only  
(normal installation position)

Frequency: 5 to 500 Hz

Sweep time:  
11 min. (6 sweeps)

Amplitude: 1.000 in.

Maximum Acceleration: 1.5 g

### Shock:

Vertical axis only (force down)

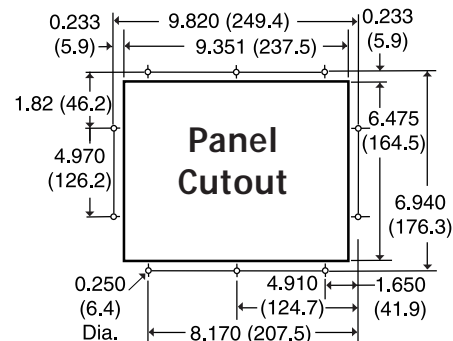
Acceleration: 40 g

Duration: 11 msec.

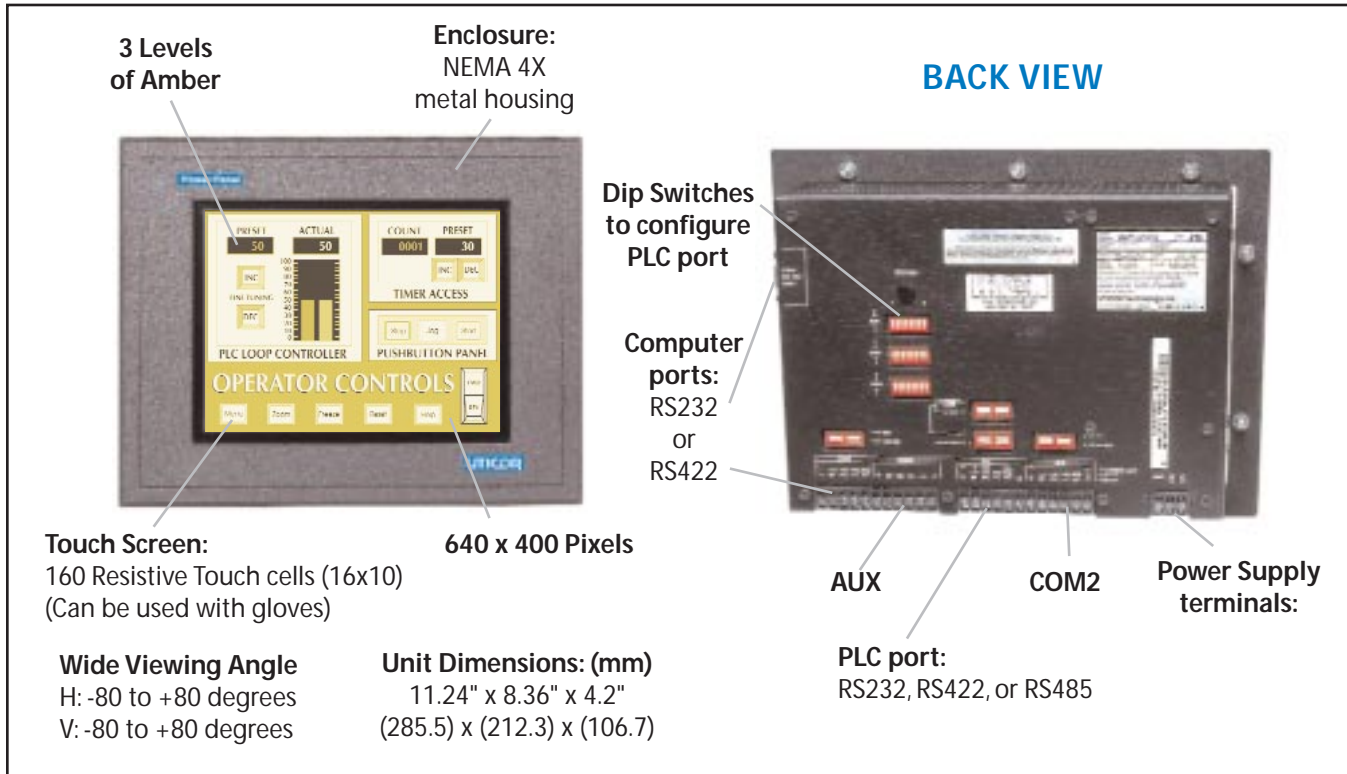
Waveform: Half sine wave

No. of impacts: 10

## MOUNTING DIMENSIONS:



# 9" Amber EL Model



**Touch Screen:**  
160 Resistive Touch cells (16x10)  
(Can be used with gloves)

**Wide Viewing Angle**  
H: -80 to +80 degrees  
V: -80 to +80 degrees

**640 x 400 Pixels**

**Unit Dimensions: (mm)**  
11.24" x 8.36" x 4.2"  
(285.5) x (212.3) x (106.7)

## SPECIFICATIONS

### Input Power:

115/230 VAC/DC, <40VA  
Fuse-1A  
(optional) 24VDC nominal  
(21.6-32VDC), <40VA  
Fuse-2A

### Display Type:

9" Diagonal, Electroluminescent  
Amber Display-3 Levels

### Display Size:

7.7" x 4.8" (195.6 x 121.9mm)

### Display Brightness:

115 NITS

### User Memory:

256K or 512 Kbytes,  
Battery-backed RAM or FLASH

### Battery Life:

1 year, if unit is OFF  
5 years, if unit is ON

### Real-Time Clock:

Standard: +1, -2 min. per  
month error maximum

### Housing:

NEMA 4X; Stainless Steel (optional)

### Temperatures:

**Operating:**  
32 to 140 °F (0 to 60 °C)  
**Storage:**  
-40 to +167 °F (-40 to +75 °C)

### Humidity:

10-95% R.H., noncondensing

### Electrical Noise Tolerance:

NEMA ICS2-230 showering arc  
test, ANSI C37.90a-1974 SWC  
Level C Chattering Relay Test

### Burn-In:

All products are temperature cycled  
96 hours and then are fully,  
functionally tested.

### Agency Approvals:

UL/CSA Class 1, DIV. II  
compliant/CE

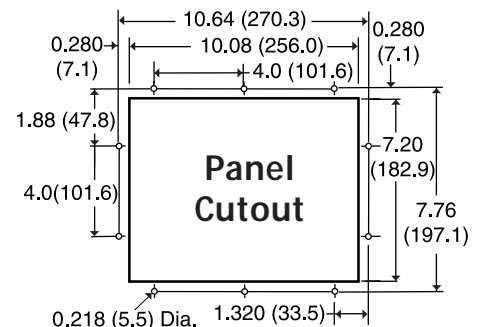
### Vibration:

Vertical Axis only  
(normal installation position)  
**Frequency:** 5 to 500 Hz  
**Sweep time:** 11 min. (6 sweeps)  
**Amplitude:** 1.000 in.  
**Maximum Acceleration:** 1.5 g

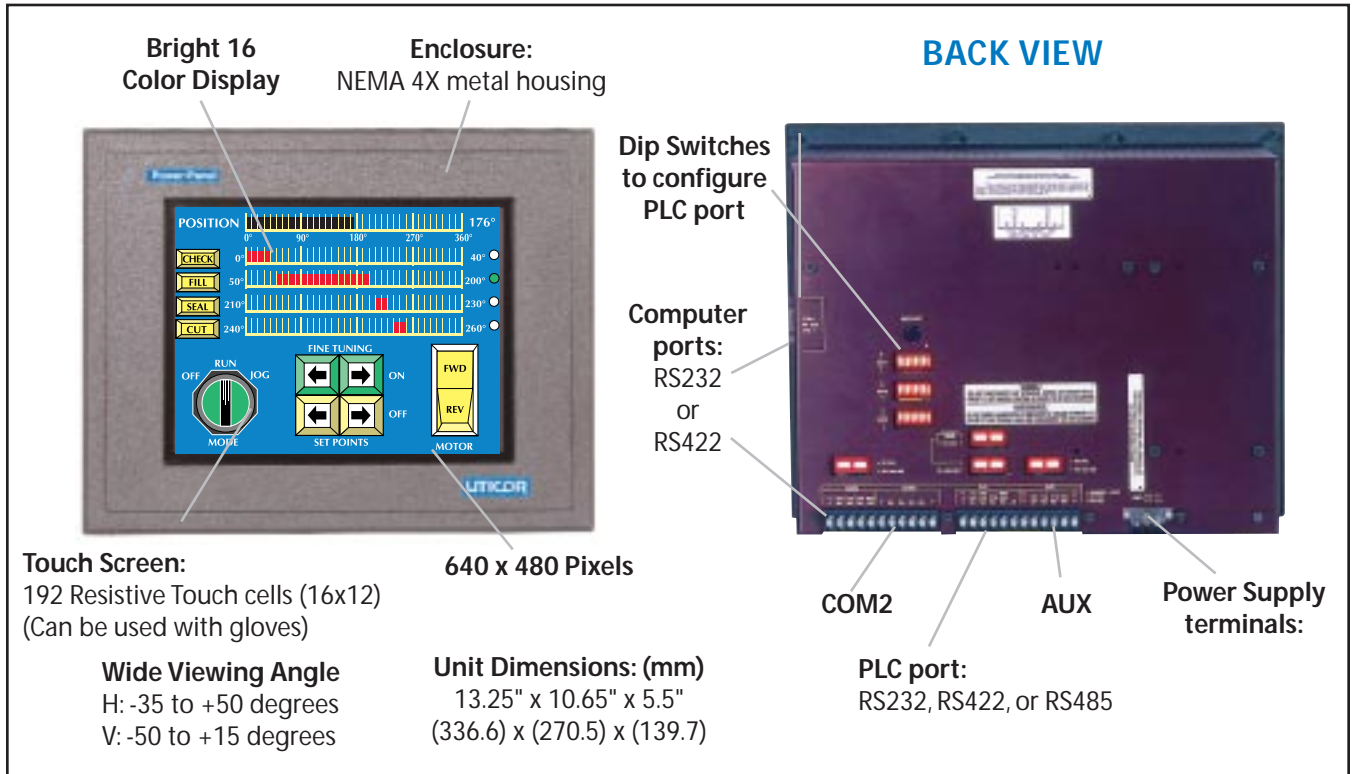
### Shock:

Vertical axis only (force down)  
**Acceleration:** 40 g  
**Duration:** 11 msec.  
**Waveform:** Half sine wave  
**No. of impacts:** 10

## MOUNTING DIMENSIONS:



# 10" Color Model



## SPECIFICATIONS

### Input Power:

115/230 VAC/DC, <40VA  
Fuse-1A  
(optional) 24VDC nominal  
(21.6-32VDC), <40VA  
Fuse-1.5A

### Display Type:

10.4" Diagonal,  
16 Color Display

### Display Size:

8.3" x 6.2" (210.8 x 157.5 mm)

### Viewing Area:

51.46 in.2 (33,201 mm2)

### Display Brightness:

150 NITS

### User Memory:

256K or 512 Kbytes Battery-Backed  
RAM or FLASH

### Battery Life:

1 year, if unit is OFF  
5 years, if unit is ON

### Real-Time Clock:

Standard: +30, -60 sec. per  
month error maximum

### Housing:

NEMA 4X; Stainless Steel (optional)

### Temperatures:

**Operating:**  
32 to 113 °F (0 to 45 °C)

### Storage:

-4 to +140 °F (-20 to +60 °C)

### Humidity:

10-95% R.H., noncondensing

### Electrical Noise Tolerance:

NEMA ICS2-230 showering arc  
test, ANSI C37.90a-1974 SWC  
Level C Chattering Relay Test

### Burn-In:

All products are temperature cycled  
96 hours and then are fully,  
functionally tested.

### Agency Approvals:

UL/CSA Class 1, DIV. II  
compliant/CE

### Vibration:

Vertical Axis only  
(normal installation position)

**Frequency:** 5 to 500 Hz

**Sweep time:** 11 min. (6 sweeps)

**Amplitude:** 1.000 in.

**Maximum Acceleration:** 1.5 g

### Shock:

Vertical axis only (force down)

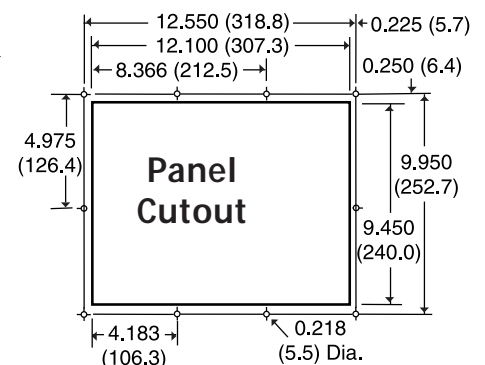
**Acceleration:** 40 g

**Duration:** 11 msec.

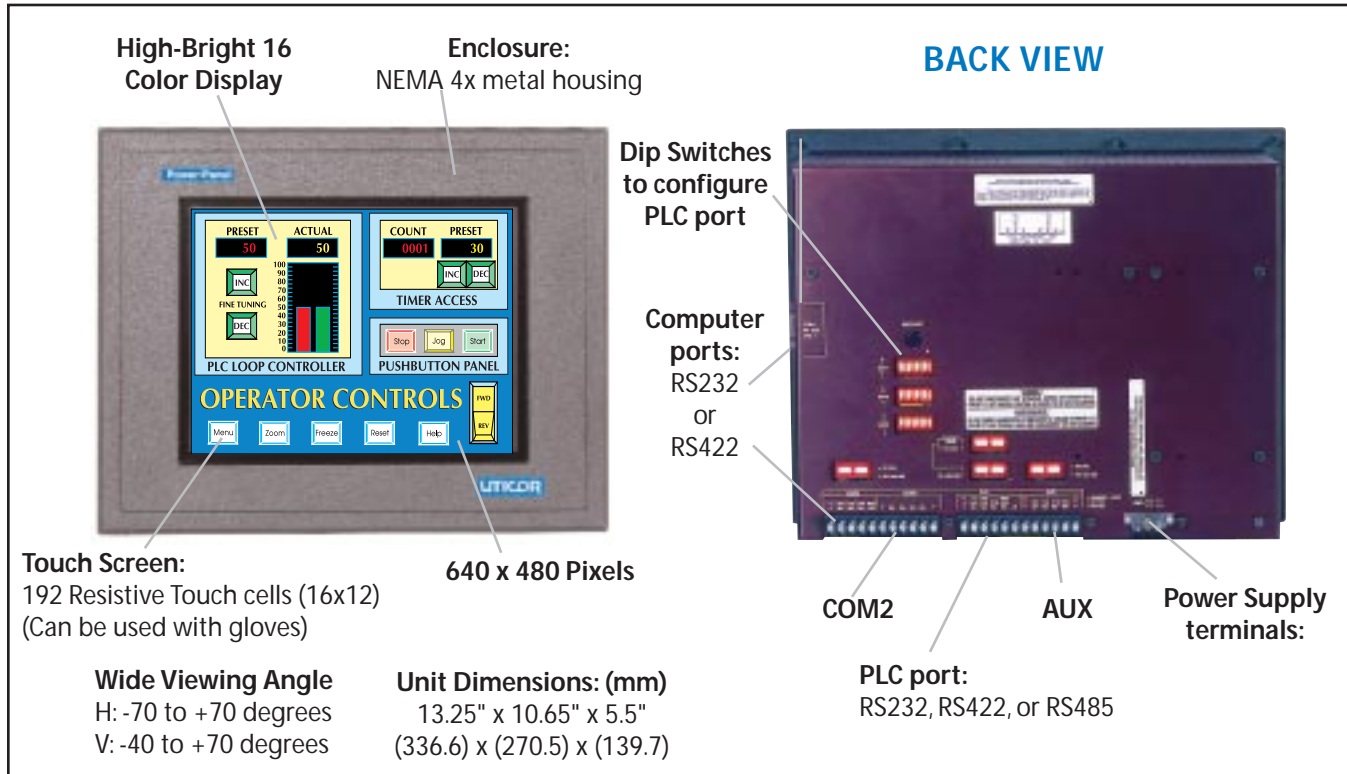
**Waveform:** Half sine wave

**No. of impacts:** 10

## MOUNTING DIMENSIONS:



# 10" High-Bright Color Model - Outdoor Readable



## SPECIFICATIONS

### Input Power:

115/230 VAC/DC, <65VA  
Fuse-1.5A

### Display Type:

10.4" Diagonal,  
Color High-Bright Display

### Display Size:

8.3" x 6.2" (210.8 x 157.5 mm)

### Display Brightness:

1,500 NITS

### User Memory:

256K or 512 Kbytes Battery-Backed  
RAM or FLASH

### Battery Life:

1 year, if unit is OFF  
5 years, if unit is ON

### Real-Time Clock:

Standard: +30, -60 sec. per  
month error maximum

### Temperatures:

**Operating:**  
32 to 113 °F (0 to +45 °C)

### Storage:

-4 to +140 °F (-20 to +60 °C)

### Housing:

NEMA 4X; Stainless Steel (optional)

### Humidity:

10-95% R.H., noncondensing

### Electrical Noise Tolerance:

NEMA ICS2-230 showering arc  
test, ANSI C37.90a-1974 SWC  
Level C Chattering Relay Test

### Burn-In:

All products are temperature cycled  
96 hours and then are fully,  
functionally tested.

### Agency Approvals:

UL/CSA Class 1, DIV. II  
compliant/CE

### Vibration:

Vertical Axis only  
(normal installation position)

**Frequency:** 5 to 500 Hz

**Sweep time:** 11 min. (6 sweeps)

**Amplitude:** 1.000 in.

**Maximum Acceleration:** 1.5 g

### Shock:

Vertical axis only (force down)

**Acceleration:** 40 g

**Duration:** 11 msec.

**Waveform:** Half sine wave

**No. of impacts:** 10

### CAUTION:

High-Bright unit generates a lot of heat  
causing temperature to rise. You may  
require air cooling to operate the unit  
within it's specified temperature.

### MOUNTING DIMENSIONS:

