

- **CAL-815(T)**
- **15-inch rack mount LCD TFT monitors**

Active matrix LCD flat panel with optional resistive touchscreen



- **Superior picture quality and state-of-the-art features in a rugged industrial enclosure**

The CAL-815(T) rack mount LCD TFT monitors were designed to provide the industrial user with superior picture quality and state-of-the-art features housed in a rugged industrial enclosure, which will assure reliable operation in most harsh environments.

These monitors employ the latest in active matrix Thin Film Transistor (TFT) technology for crisp screen images and wide viewing angles. And because they are LCDs, they are also inherently immune to the magnetic fields commonly found on the plant floor or communications centers.

The CAL-815 monitors connect to any common VGA video interface and are Plug-n-Play compliant. Their high-resolution 15-inch display offers the optimal trade-off between screen size and cost.

For operator input stations, a resistive touchscreen is available as an optional feature giving your operators a powerful, intuitive interface with your systems.

**Features include:**

- **15-inch active matrix LCD display with 0.297mm pixel pitch display for precise images**
- **Flicker-free resolution up to 1024 x 768 and 200nits brightness for easy viewing**
- **Tempered glass for added LCD panel protection**
- **On-screen controls permit easy adjustment of image quality, size, position and geometry**
- **Standard black finish**
- **Optional resistive touchscreen**

## ► CAL-815(T) - Technical Specifications

### Monitor Specifications

#### Mounting

- Rack mounting, 19-inch (482.6mm)

#### Display Type

- LCD, TFT, active matrix

#### Display Size

- 15-inch (381mm) diagonal

#### Viewing Area (W x H)

- 11.86 x 8.9-inch (304.1 x 228.1mm)

#### Dimension (W x H x D)

- 18.82 x 13.87(8U) x 2.17-inch (482.6 x 354.6 x 55.6mm)

#### Contrast Ratio

- 350:1 (typical)

#### Viewing Angle (H/V)

- L60 to R60/H55 to L45 (min.)

#### Display Colors

- 16.7 million

#### Maximum Resolution

- XGA (1024 x 768) @ 75Hz

#### Brightness

- 200nits (cd/m<sup>2</sup>)

#### Response Time

- Tr: 13ms
- Tf: 27ms (typical)

#### Interface

- Analog RGB

#### Horizontal Scanning Frequencies

- 48.4 to 62.5kHz

#### Vertical Scanning Frequencies

- 55 to 75kHz

#### Pixel Pitch (H x V)

- 0.297 x 0.297mm

#### LCD panel protection

- Tempered glass to protect LCD panel

#### Cable Connector

- 15-pin mini D-SUB

#### Monitor Control Type

- Digital microprocessor OSD control

#### Memory Modes

- Eleven factory presets
- Presets are defined according to VESA standards
- The AD board will scan at 60, 72 or 75Hz

#### VESA Plug-n-Play Level

- DDC1 and DCC2B

#### Screen Adjustment Controls

- Menu, up, down, auto configuration, power on/off, LED

#### Power Management

- VESA DPMS, EPA/Energy and Star compliant

#### Front Bezel

- Aluminum

#### Housing

- SECC

#### Color

- Black, medium texture paint, water based

#### Weight Net

- With or without touchscreen: 26.5lb (12kg)

#### MIBF

- 25,000hrs

### Touchscreen Specifications

#### Type

- analog resistive

#### Accuracy

- Less than ±1% error within the active area

#### Resolution

- 1024 touch points per axis within the active area

#### Optical Clarity

- 82% light transmission at 550nm when bonded 1024 x 1024 resolution

#### Light Transmission

- 75 to 92.1% (typical)

#### Touch Contact Requirement

- Less than 10ms (input by finger)

#### Activation Force

- 2.7 to 250g

#### Glass Thickness

- 0.08-inch (2mm)

#### Surface Durability

- 3H surface hardness

#### OS Support

- DOS, Windows R 3.1/95/98/2000/NT 4.0

### Environmental

#### Operating Temperature

- 0° to 50°C (0° to 122°F)

#### Non-Operating Temperature

- -20° to 60° C (-4° to 140°F)

#### Power Requirements

- 100 to 240VAC, 1.8A, 50/60Hz

#### Power Consumption

- 20W (typical), 36W (max.)

#### Relative Humidity

- 5 to 96% RH, (non-condensing)

### Agency Approvals

- FCC Conformity with: Part 15, Subpart B
- CE conformity

### Ship Kit

- Rack mount LCD monitor
- Video cable (attached to monitor)
- Power cable
- Touchscreen cable (if touchscreen model is ordered)

## ► Ordering Guide

Model Name	Description
CAL-815	15-inch rack mount LCD/TFT monitor
CAL-815T	15-inch rack mount LCD/TFT monitor with touchscreen