

## AMB-232 series

### 9.4"/10.4" Industrial Display Monitors



▶ AMB-232CS /  
AMB-232HT

#### Introduction

The AMB-232 is an ideal 9.4" VGA color DSTN, 10.4" VGA (640 x 480) color TFT display panel built specifically for industrial applications. With the optional touchscreen, the AMB-232 is an excellent and user-friendly system control interface.

The AMB-232 series come with a dedicated ISA-bus video display card (MBC-265B), and use LVDS technology. This combination allows for EMI-shielded data transfers at distances up to 10m. The chassis is constructed with an plastic front panel and steel chassis. This combination ensures a sturdy and corrosion resistant monitor, and is NEMA 4/12 compliant.

#### Features

- 9.4" VGA color DSTN, 10.4" VGA color TFT LCD display
- Heavy-duty steel chassis and aluminum alloy front panel
- Front panel is NEMA 4/12 & IP65 compliant
- Strengthened glass protects the front panel from shock damage
- LVDS VGA cable length support up to 10 Meters
- Touchscreen (optional)

#### Specifications

- **Construction:** Heavy-duty steel chassis & Aluminum alloy front panel meets NEMA 4/12 & IP65
- **Front Panel color:** PMS cool gray 4C

- **Mounting:** Panel mount
- **Input signal:** DB-25 VGA connector
- **Control:** brightness controller knob on the rear panel
- **Flat Panel Display :** MBC-265B control card, MBC-266B(optional)
- **Dimension (W x H x D):**  
301 x 216 x 48.5mm (11.9"x 8.5"x 1.9" )
- **Carton dimension (W x H x D):**  
373 x 359 x 330mm (14.7"x 14.1"x 13" )
- **Gross Weight:** 5.1Kg (11.3 lbs)

#### Flat Panel Control Card (MBC-265B+LVDS)

- **Type:** Half-size ISA-bus graphic control card
- **Video Chip:** TOPRO TP86508 LCD/CRT controller
- **DRAM:** On-board 1MB, up to 2.5M (optional)
- **Connectors:** Built in 8/16-bit, 18-bit and 24-bit panel connector.
- **Max. resolution and color:** 800 x 600 @256K color

#### MBC-266B+LVDS (optional)

- **Type:** Half-size PCI-bus graphic control card
- **Video Chip:** Chips T65550 LCD/CRT controller
- **DRAM:** On-board 1MB, up to 2.5M (optional)
- **Connectors:** Built in 8/16-bit, 18-bit and 24-bit panel connector.
- **Max. resolution and color:** 1024 x 768 @256K color

## Environmental

- **Operating temperature:** 0° to 50°C (32~122°F)
- **Storage temperature:** -20° to 60°C (-4~140°F)
- **Storage humidity:** 5 to 95%, non-condensing
- **Altitude:** 10,000 ft. (3000 meters)
- **Vibration:**  
5 to 17 Hz, 0.1" double-amplitude displacement  
17 to 500 Hz, 1.5G peak to peak
- **Shock:** 10G peak acceleration (11 msec. duration)
- **EMI:** FCC/CE Class A

## Touchscreen (optional)

**Type:** 4-wire, analog resistive

**Resolution:** 1024 x 1024

**Light transmission:** 72%

**Operating pressure:** 30-45 grams for finger, 10 grams for stylus pen. Contact bounce < 10ms

**Controller:** RS-232 interface

**Power consumption:** +5V @200mA

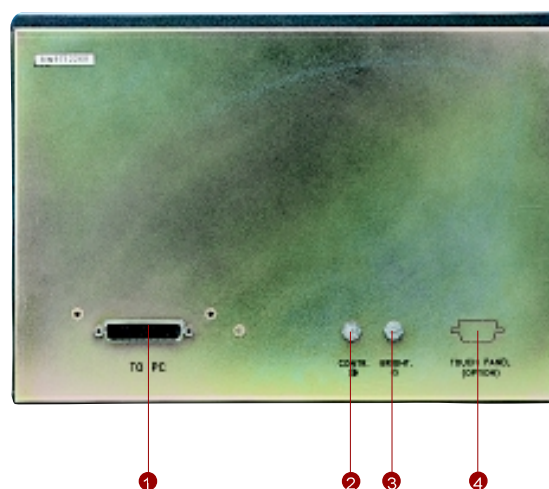
**OS support:** MS DOS, Windows 3.1, Windows 95, Windows 98, Windows NT, Windows 2000.

## Ordering Information

- **AMB-232CS**  
9.4" DSTN LCD, ISA VGA Card and 1.8m VGA extension cable
- **AMB-232CST**  
AMB-232CS + touchscreen (RS-232 interface)
- **AMB-232HT**  
10.4" TFT LCD, ISA VGA Card and 1.8m VGA extension cable
- **AMB-232HTT**  
AMB-232HT + touchscreen (RS-232 interface)
- **Optional**  
PCI VGA card

## LCD Specification

Model	AMB-232 CS	AMB-232HT
Display type	9.4" DSTN color LCD	10.4" TFT color LCD
Max. resolution	640 x 480	640 x 480
Max. colors	4096	256K
Dot size (mm)	0.30 x 0.30	0.3075x 0.3075
Luminance (cd/m <sup>2</sup> )	60	200
Viewing angle	45° (H)	90° (H)
	45° (V)	50° (V)
Operating temperature	0° ~50° C(32~122° F)	0° ~50° C(32~122° F)
VR Controller	Brightness / Contract	Brightness
LCD MTBF (Hrs)	50,000	50,000
Back Light MTBF (Hrs)	10,000	20,000



1. DB-25 connect to flat-panel control card
2. Contrast control (for DSTN LCD)
3. Brightness control
4. Touchscreen signal to RS-232 port (option)

## Dimension

