

WOP-2057V

5.7" QVGA Operator Panel with PM Designer 2.0 Software



Features

- Various LCD sizes (3.5", 5.7", 7", 8", 10.4", 12.1")
- Supports ARM9-based CPUs with 70~200MHz and 4~16M flash memory size
- Supports RTC, battery backup RAM, and Ethernet-based operator panels
- Supports Runtime data downloads through Serial, Ethernet, USB
- Supports adjustable brightness controls via touch panel
- Reliable firmware for 24/7 operation
- Supports Windows XP/ Vista-based PM Designer 2.0 development tool
- Easy to switch one application to different LCD sizes in seconds
- Supports vertical and horizontal application screen rotation
- Supports over 250 PLC industrial communication protocols
- Communicates with up to four types of devices
- Panel mounting for machinery

Introduction

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the WOP-2000 series which are designed with ARM9-based RISC CPU with 70~200MHz and 4~16MB flash memory size for application software. The WOP-2000 series also support a variety of LCD size from 3.5" to 12.1" for different applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. PM Designer 2.0 is a software development kit which helps create application solutions for labor-saving, improved efficiency of manufacturing and easy control of every machine in the factory. The WOP-2000 series is bundled with PM Designer 2.0 offering an outstanding price performance ratio for various markets such as conventional operator panels, HMI + Low mini SCADA systems, and HMI + communication gateways.

Specifications

General

▪ Certifications	CE / FCC / BSMI / UL / CCC
▪ Dimensions (WxHxD)	187 x 145.7 x 45 mm (7.36" x 5.73" x 1.77")
▪ Cut-out Dimensions	174.5 x 132.5 mm (6.87" x 5.21")
▪ Front Panel Thickness	6mm
▪ Operating System	HMI RTOS, PM Designer 2.0
▪ Power Supply Voltage	24V _{DC} ±10%
▪ Power Consumption	15W
▪ Enclosure Housing	Plastic
▪ Mounting	Panel
▪ Weight (Net)	0.65 kg (1.42 lbs)

System Hardware

▪ CPU	RISC 32bits, 70MHz
▪ Battery Backup Memory	128KB
▪ Flash Memory	4MB
▪ Power-On LED	Yes
▪ Communication LED	COM1 and COM2
▪ Front USB Access	No

Communication Interface

▪ COM1	RS-232/422/485 (DB9 Female)
▪ COM2	RS-232/422/485 (DB9 Male & 5-Pin Connector)
▪ COM3	None
▪ Ethernet (RJ45)	10/100-BaseT (for N1AE model)
▪ I/Os	USB Client No
	USB Host No
	Micro-SD Slot No

LCD Display and Touchscreen

▪ Display Type	QVGA TFT LCD
▪ Display Size	5.7"
▪ Max. Resolution	320 x 240
▪ Max. Colors	265 colors
▪ Luminance (cd/m²)	400
▪ Viewing Angle (H/V°)	100/95
▪ Backlight Life	LED, 20,000 hrs
▪ Dimming	Adjustable by touch panel
▪ Touchscreen	4 wire analog resistive

Environment

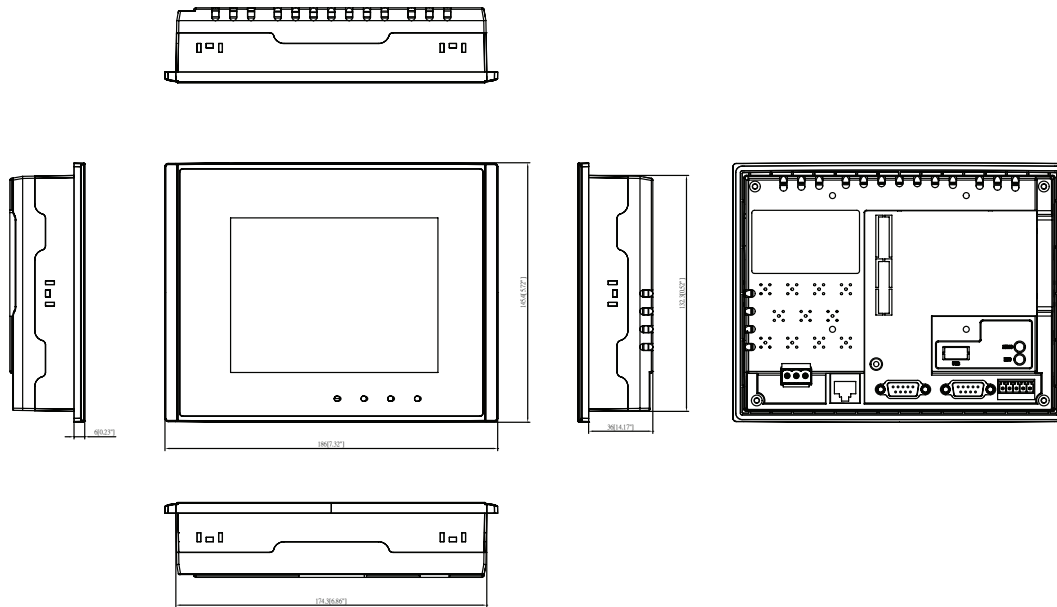
▪ Operating Temperature	0 ~ 50° C (32 ~ 122° F)
▪ Storage Temperature	-20 ~ 60° C (-4 ~ 140° F)
▪ Humidity	10 ~ 95% RH @ 40° C, non-condensing
▪ Ingress Protection	Front panel: NEMA4, IP65
▪ Vibration Protection	Operating, random vibration 1 Grms (5 ~ 500 Hz)

Ordering Information

▪ WOP-2057V-S1AE	5.7" QVGA, 4MB, RS-232/422/485
▪ WOP-2057V-N1AE	5.7" QVGA, 4MB, RS-232/422/485, Ethernet

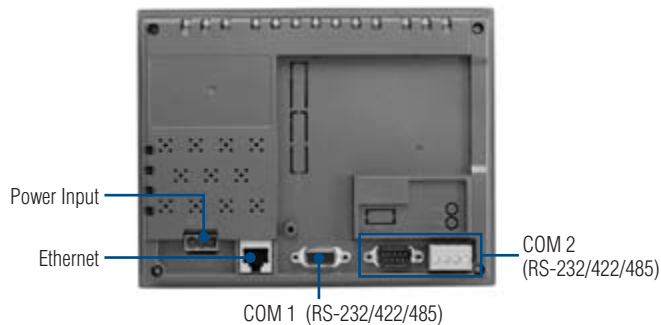
Dimensions

Unit: mm



Panel Cut-out Dimensions: 174.5 x 132.5 mm (6.87" x 5.21")

Rear View



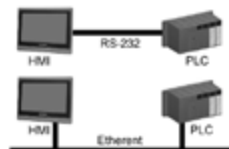
HMI Development Software Features



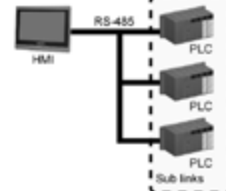
Communication Links

Direct Link

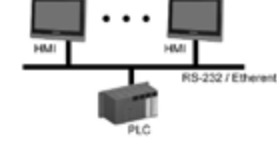
1-to-1 Connection



1-to-N Connection

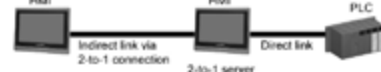


N-to-1 Data Sharing Connection

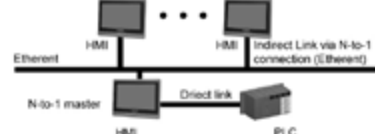


In-Direct Link

2-to-1 Connection



N-to-1 Connection



2-to-1 Transparent Connection

