WebOP-2040K

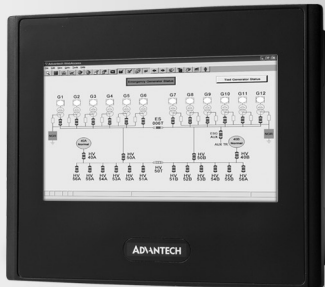## 4.3" WQVGA Operator Panel with WebOP Designer Software

NEW

Features

- Various LCD sizes (4.3" , 7" , 10.1")
- Supports ARM9-based CPUs with 200MHz and 128MB flash memory
- Supports RTC, battery backup RAM
- Supports runtime data downloads through Serial, USB
- Supports adjustable brightness controls via touch panel
- Reliable firmware for 24/7 operation
- Supports Windows XP/7/Vista-based WebOP Designer development tool
- Easy to switch one application to different LCD sizes in seconds
- Supports vertical and horizontal application screen rotation
- Supports over 300 PLC industrial communication protocols
- Communicates with up to four types of devices
- Panel mounting for machinery
- Front panel is NEMA4/IP66 compliant

Introduction

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the WebOP-2000K series with 200MHz ARM9-based RISC CPU's and 128MB flash memory for application software. The WebOP-2000K series also support a variety of LCD sizes from 4.3" to 10.1" for different applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. The WebOP-2000K series is bundled with WebOP Designer: 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. WebOP Designer offers 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, BSMI, CCC, UL, FCC Class A
- **Dimensions (WxHxD)** — 130 x 106.2 x 36.4mm (5.11" x 4.18" x 1.43")
- **Cut-out Dimensions** — 118.5 x 92.5mm (4.66" x 3.64")
- **Front Panel Thickness** — 5mm
- **Operating System** — HMI RTOS, WebOP Designer
- **Power Supply Voltage** — $24V_{DC} \pm 10\%$
- **Power Consumption** — 5W
- **Enclosure Housing** — Plastic
- **Mounting** — Panel
- **Weight (Net)** — 0.35 kg (0.77 lbs)

System Hardware

- **CPU** — RISC 32bits, 200MHz
- **Battery Backup Memory** — 128KB
- **Flash Memory** — 8MB
- **Communication LED** — No
- **Front USB Access** — No

Communication Interface

- **COM1** — RS-232/422/485 (DB9 Female)
- **COM2** — None
- **COM3** — RS-232 (Com1: Pin5;7;8)
- **I/Os** — USB Client   Yes
            USB Host   Yes

LCD Display and Touchscreen

- **Display Type** — WQVGA TFT LCD
- **Display Size** — 4.3"
- **Max. Resolution** — 480 x 272
- **Max. Colors** — 65,536 colors
- **Luminance (cd/m²)** — 250
- **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 ~ 90% RH @ 40°C, non-condensing
- **Ingress Protection** — Front panel: NEMA4, IP66
- **Vibration Protection** — Operating, radom vibration 1 Grms (5 ~ 500 Hz)

Ordering Information

- **WOP-2040K-S1AE** — 4.3" WQVGA, 32MB, 8MB(NOR)

Dimensions

Unit: mm

106.2 (4.18")

92 (3.62")

5 (0.2")

130 (5.11")
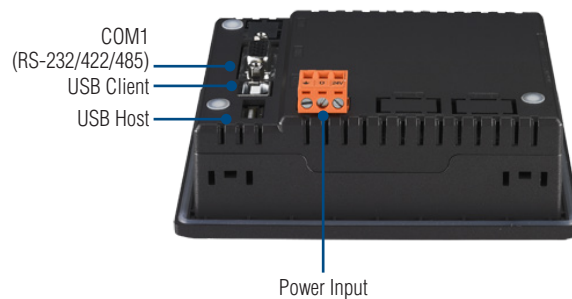
36.4 (1.43")

118 (4.65")
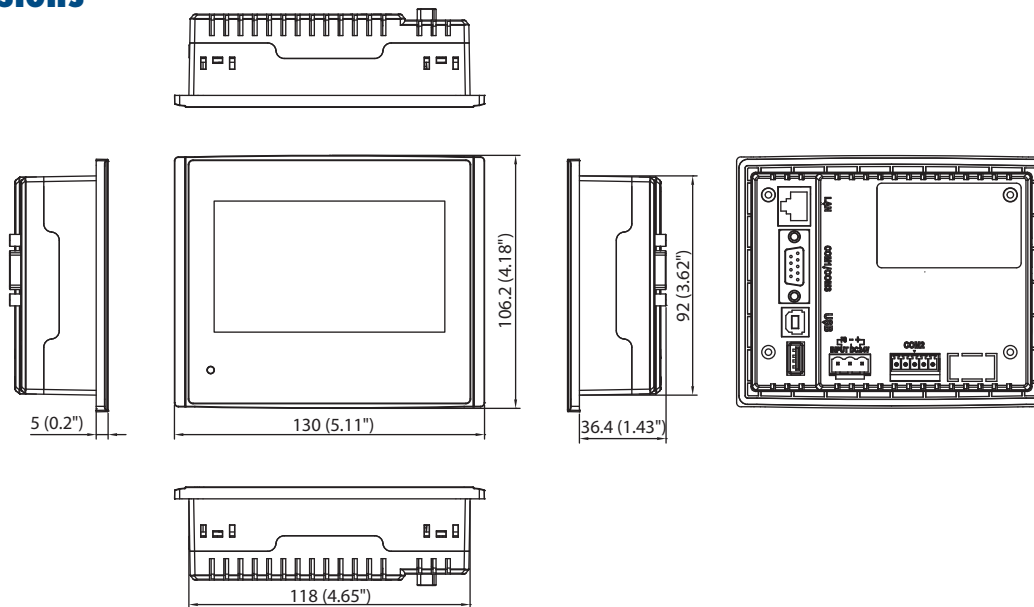
Panel Cut-out Dimensions: 118.5 x 92.5 mm (4.66" x 3.64")

Accessories

- **CWOP-P2HFM-AD12E**   PC to HMI program download cable, DB9/2m
- **CWOP-P2HAB-ADU2E**   PC to HMI program download cable, USB/2m
- **PWR-247-AE**   24 V 50 W AC-DC Power Adapter
- **1702002600**   Power Cable US Plug 1.8 M
- **1702002605**   Power Cable EU Plug 1.8 M
- **1702031801**   Power Cable UK Plug 1.8 M
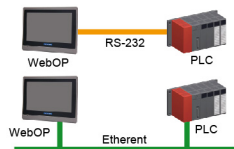- **1702031836**   Power Cable China/Australia Plug 1.8 M
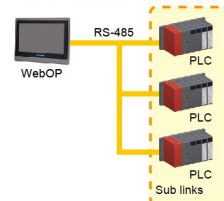
Rear View

COM1
(RS-232/422/485)
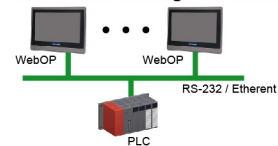USB Client
USB Host

Power Input

Communication Links

Direct Link

1-to-1 Connection

WebOP   RS-232   PLC

WebOP   Etherent   PLC

1-to-N Connection

WebOP   RS-485   PLC
PLC
PLC
Sub links

N-to-1 Data Sharing Connection

WebOP   WebOP
RS-232 / Etherent
PLC

In-Direct Link

2-to-1 Connection

WebOP   WebOP   PLC
Indirect link via
2-to-1 connection   Direct link
2-to-1 server

N-to-1 Connection

WebOP   WebOP   Indirect Link via N-to-1
connection (Etherent)
Etherent
N-to-1 master   Direct link
WebOP   PLC
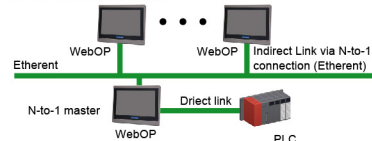
2-to-1 Transparent Connection

WebOP   WebOP   PLC
2-to-1 Transparent Server
PC   WebOP   PLC
2-to-1 Transparent Server

Online Download www.advantech.com/products

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