



TOUCHSCREEN OPERATOR DISPLAY PANEL WEBOP SERIES

ADVANTECH

DESCRIPTION

The **Advantech WebOP Series** of touchscreen operator panels are designed to satisfy the stringent standards required in the automation market for both commercial and industrial applications. This series of operator panels are designed with ARM-based RISC platform. It provides Real-Time OS which bundles WebOP Designer software and lets the Operator Panel become a control HMI for flexible system integration. WebOP Designer 2.0 is a free software development tool which runs on a standard PC and helps create application screens. This series of operator panels also support a variety of LCD sizes from 4.3" to 10.1" and are suitable for any HMI applications, and will interface to different DDCs, motion/thermal controllers, inverters and sensors. It has variety of communication interface connections make it very flexible for many applications. It supports BACnet IP, Modbus RTU, Modbus TCP/IP, Rockwell and Siemens PLCs and many others.



WOP-2100T



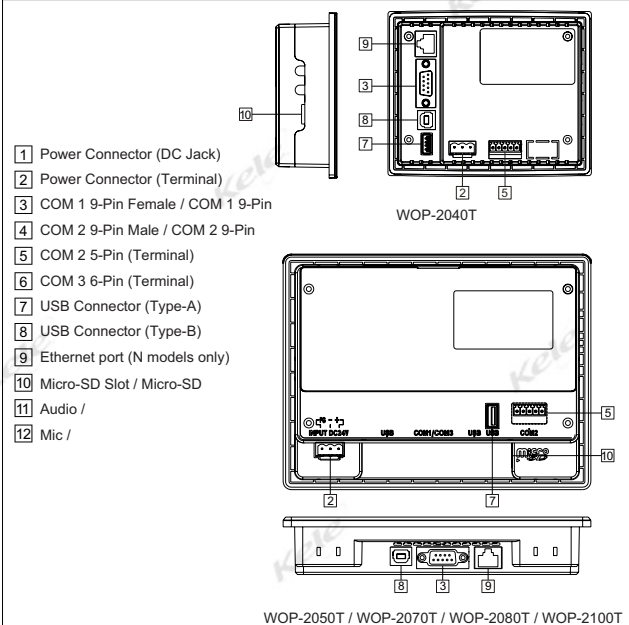
FEATURES

- **Various touchscreen LCD sizes (4.3" to 10.1")**
- **Supports BACnet IP, Modbus RTU, Modbus TCP/IP, and other PLC protocols**
- **Supports ARM9-based CPUs with 200MHz and 128MB flash memory**
- **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 WebOP Designer development tool**
- **Supports vertical and horizontal application screen rotation**
- **Communicates with up to four types of devices**
- **Panel mounting for machinery**
- **IP66 (NEMA 4/4X) compliant front panel**

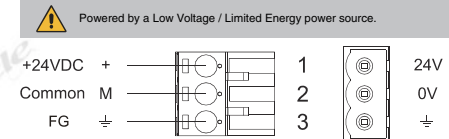
SPECIFICATIONS

Supply Voltage	24 VDC \pm 10% @ 417 mA
Protocol	RS-232/422/485, USB, Ethernet (N models)s
Processor	32 bit RISC, 200MHz
Operating System	HMI RTOS
LED Indication	Power on LED
Mounting	Panel
Housing Type	Plastic
Operating Temperature	32° to 122°F (0° to 50°C)
Operating Humidity	10-90% RH, non-condensing
Approvals	CE, BSMI, CCC, FCC Class A
Warranty	2 years

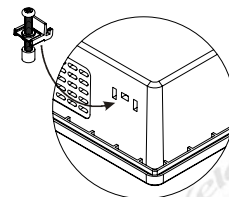
WIRING



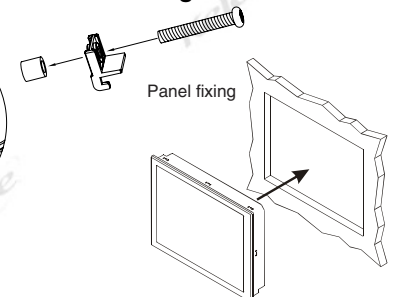
Power supply



Fixing Screw



Panel Mounting





NETWORK

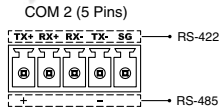
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PINOUTS

WOP-2000T Series

COM 1 DB-9 Female

Pin	Description
1	RS-422 TXD+ / RS-485+
2	RS-232 RXD
3	RS-232 TXD
4	RS-422 RXD+
5	GND
6	RS-422 TXD- / RS-485-
7	RS-232 TXD (COM 3)
8	RS-232 RXD (COM 3)
9	RS-422 RXD-



COM 3 (6 Pins)

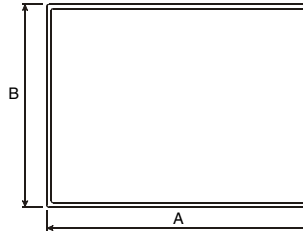


Download Cable

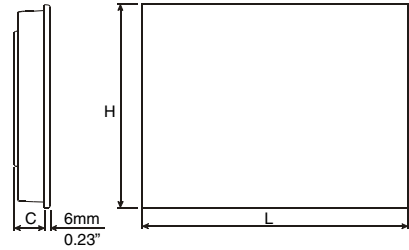
COM 1			
COM 1 Connector 9-Pin Female			PC Connector 9-Pin Male
RXD	2	3	TXD
TXD	3	2	RXD
SG	5	5	SG
COM 2			
COM 2 Connector 9-Pin Male			PC Connector 9-Pin Male
RXD	2	3	TXD
TXD	3	2	RXD
SG	5	5	SG
COM 3 DB-9 (T series only)			
COM 3 Connector 9-Pin Female			PC Connector 9-Pin Male
RXD	8	3	TXD
TXD	7	2	RXD
SG	5	5	SG

DIMENSIONS

Outlet



Cut-out



Model	A	B	C	L	H
WOP-2040T	130 mm / 5.11"	106.2 mm / 4.18"	36.4 mm / 1.43"	118.5 mm / 4.66"	92.5 mm / 3.64"
WOP-2050T	188 mm / 7.4"	143.3 mm / 5.64"	30 mm / 1.18"	175 mm / 6.89"	132.5 mm / 5.21"
WOP-2070T	188 mm / 7.4"	143.3 mm / 5.64"	30 mm / 1.18"	175 mm / 6.89"	132.5 mm / 5.21"
WOP-2080T	231.5 mm / 9.11"	174.6 mm / 6.87"	37 mm / 1.46"	221 mm / 8.7"	164 mm / 6.46"
WOP-2100T	269.8 mm / 10.62"	212 mm / 8.35"	37.4 mm / 1.47"	259.5 mm / 10.22"	201.5 mm / 7.93"

12

NETWORK

ORDERING INFORMATION

MODEL	COMMUNICATION PORTS	DATA LOGGING	WEIGHT	DISPLAY	WIRING TERMINATIONS
WOP-2040T-N1AE	RS-232/422/485, USB, Ethernet	Internal + MicroSD	0.66 lbs (0.3 Kg)	4.3" WQVGA LCD	1 x RJ-45, 1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)
WOP-2040T-S1AE	RS-232/422/485, USB	Internal	0.66 lbs (0.3 Kg)	4.3" WQVGA LCD	1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)
WOP-2050T-S1AE	RS-232/422/485, USB	Internal + MicroSD	1.12 lbs (0.51 Kg)	5.6" QVGA LCD	1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)
WOP-2070T-N2AE	RS-232/422/485, USB, Ethernet	Internal + MicroSD	1.32 lbs (0.6 Kg)	7" WVGA LCD	1 x RJ-45, 1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)
WOP-2070T-S2AE	RS-232/422/485, USB	Internal	1.32 lbs (0.6 Kg)	7" WVGA LCD	1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)
WOP-2080T-N2AE	RS-232/422/485, USB, Ethernet	Internal + MicroSD	2.05 lbs (0.93 Kg)	8" SVGA LCD	1 x RJ-45, 1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)
WOP-2080T-S2AE	RS-232/422/485, USB	Internal	2.05 lbs (0.93 Kg)	8" SVGA LCD	1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)
WOP-2100T-N2AE	RS-232/422/485, USB, Ethernet	Internal + MicroSD	2.64 lbs (1.2 Kg)	10.1" WSVGA LCD	1 x RJ-45, 1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)
WOP-2100T-S2AE	RS-232/422/485, USB	Internal	2.64 lbs (1.2 Kg)	10.1" WSVGA LCD	1 x USB, 1 x DB-9, 2 x plug-in terminal block (#16 24 AWG)

ACCESSORIES

1702002600
CWOP-P2HAB-ADU2E
CWOP-P2HFM-AD12E
PWR-247-AE

Power Cable US Plug 1.8 M
PC to HMI program download cable, USB/2m
PC to HMI program download cable, DB9/2m
24 V 63 W AC-DC Power Adapter