WP4070A
QUICK START GUIDE

Product Code: WP4 070 A

- Series
- Display Size
- Standard Configuration

INTRODUCTION

The **WP4000A** is an HTML5 powered client device with a built-in Chromium browser, which connects to a remote web server on its network.

All WP4000A devices are compliant to EMC directive 2014/30/EU and LVD directive 2014/35/EU and certified for UL Class I Div. 2.

For More Information, visit
https:\\www.maplesystems.com

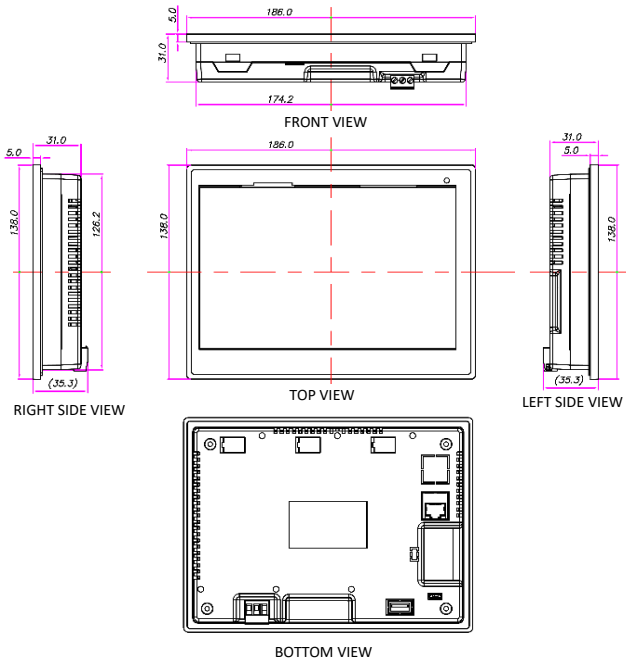
SPECIFICATIONS

Power	24VDC (+20%, - 15%), 0.3A, 7.2W
Display	800 x 480 pixels, 7" Color TFT, WVGA Analog Resistive Touch Screen
Colors	16M
Memory	eMMC: 4GB RAM: 1GB
USB Ports	1x Type C USB and USB Host
Ethernet	1x Ethernet Port
Panel Cutout	127.00(H) x 175.00(W)mm
Dimensions	186.00(L) x 138.00(W) x 31.00(D)mm
Weight	Approx. 400gm
LED	1
Environment & Approvals	
Operating Temperature	0 to 50°C
Storage Temperature	-20 to 85°C
Humidity	10 to 90% (Noncondensing)
Shock	IEC 60068-2-27 25g, 11ms, 6 shocks per axis, total 18 shocks (X, Y, Z)
Vibration	IEC 60068-2-6 5 to 150Hz, 3g peak (X, Y, Z)
EMC	EN 55011 :2009/A1 :2010 EN 61131-2 :2007 EN 61000-6-2 :2005/AC :2005 EN 61000-6-4 : 2007/A1 :2011
Protection	IP66 for front panel mounting
Approvals	CE, UL(Class I Div 2) & RoHS compliant

Default Product Settings

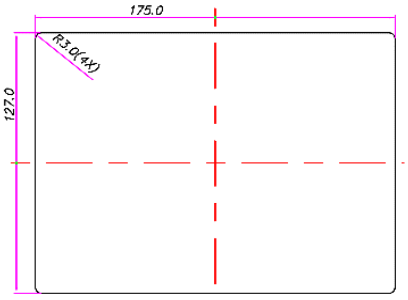
Network Settings	DHCP
Brightness	Full Scale
Screen Touch Beeper	On
Default Language	English

PRODUCT DIMENSIONS



PANEL CUTOUT DIMENSIONS

Panel Cutout Dimensions: 127.00(H) x 175.00(W)
Panel Thickness: Maximum 6mm
Mounting Clamps: 4



Tighten the mounting screws evenly to a torque approximately 0.4N/m to maintain water and dust resistance.

COMMUNICATION

This section provides information regarding communication interfaces supported by this product.

Ethernet Port

The WP4000A series devices come with a built-in Ethernet port.

1. Fully compliant with IEEE 802.3 / 802.3u standards.
2. 10/100 Mbps support.
3. Connector used: Standard shielded RJ-45 female jack with built-in speed and link activity indication LEDs.

Pin number	Signal
1	TX+
2	TX-
3	RX+
4	NC
5	NC
6	RX-
7	NC
8	NC

Type C USB Port

The WP4000A Series comes with a Type C USB port.

USB Host Port

The WP4000A devices support one USB Host port that connects to a USB 2.0 compatible USB Flash drive. This port can be used to upgrade the firmware and the browser.

Pin number	Signal
1	VCC
2	D-
3	D+
4	GND

GETTING STARTED

To use the WP4000A as a browser, follow these steps to connect the device to a webserver. The Password for configuring the device is **admin@123**.

[Note: For configuring new Password it must be at least 7 or more characters with 1 capital letter (0-9, a-z, A-Z).]

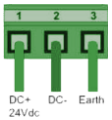
1. Connect an Ethernet cable to the device.
2. Power up the device using 24VDC power supply by connecting it to the device's pluggable terminal block.
3. If the browser or the firmware needs to be updated, connect a USB flash drive to the device.

MAIN SETTINGS

Settings	Description
	Device Settings button. This button is used to enter into device configuration. Settings for Network, Calibration, Password, OSK, Time and Brightness can be accessed using this button.
	URLs Settings button
	Device Information button

Grounding

The optimum method for Grounding electronic equipment is to ground it separately from other high-power systems and to ground more than one unit of electronic equipment with a single-point ground. The Grounding marked terminal (see below) is provided on the unit.



[Note: Do not use a ground that has an unstable impedance, such as painted screws or a ground subject to vibration.]

UL APPROVAL

CONTROL DRAWING NO# CNTL/DWG/1011-0717

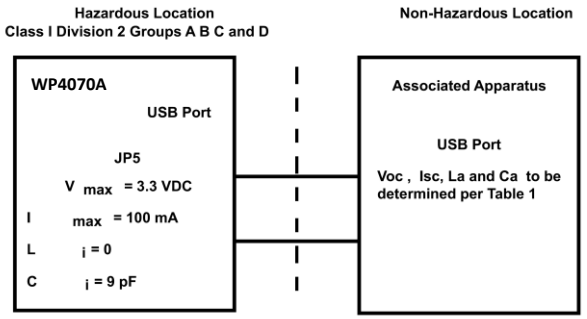


TABLE 1:

Nonincendive. Equipment		Associated Apparatus
V max (or Ui)	≥	Voc or Vt (or Uo)
I max (or Ii)	≥	Isc or It (or Io)
Ci + Ccable	≤	Ca (or Co)
Li + Lcable	≤	La (or Lo)

Capacitance and inductance of the field wiring from the nonincendive equipment to the associated apparatus shall be calculated and must be included in the system calculations as shown in Table 1.
Where the cable capacitance and inductance per foot are not known, the following values shall be used: Ccable = 60 pF/ft., Lcable = 0.2 µH/ft.
Wiring method must be in accordance with ANSI/NFPA70

WARNINGS

- This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D or non-hazardous locations only.
- WARNING – EXPLOSION HAZARD – Do not disconnect equipment unless power has been removed or the area is known to be non- hazardous.
- WARNING – EXPLOSION HAZARD - Substitution of components may impair suitability for Class I, Division 2.
- The list of materials used in the construction of these devices with name of sealed device - generic name of the material and the supplier's name and type designation.
- It is recommended that the user periodically inspect the sealed devices used, for any degradation of properties and replace the device if any degradation is found.

REVISION HISTORY

Rev.	Description	Date
00	Initial Release	04/24/2024
01	Updating Control Drawing No#	05/15/2024

Maple Systems Inc® reserves the right to change or discontinue specifications and features without prior notice.

To view the latest and updated datasheets/manuals please visit **www.maplesystems.com**.