

# OP320-A(-S/-N)

# Fast reference manual

### Installation Guide

### <1> Environmental Requirement

- -- Dry and no condensation.
- --Far from corrosive gas and dusts.
- --Don't install the unit in somewhere with liquid or chemicals.

### <2> Wiring

- -- Far from the power supply or cable with high current or high voltage.
- --Never over voltage; Make sure the polarity of power supply is correct.
- -- The cable connection should be right.

### <3> Cleaning

--Product cover will be eroded by strong acid, alkali and organic liquor.

# **General Specifications**

Input Voltage: DC22 - 26V Power Consumption: ≤4W

Power off allowable: less than 20ms

Withstand Voltage: AC1000V-10mA less than 1 minute

Operation Temperature:  $0\sim50^{\circ}\text{C}$ Storage Temperature:  $-10\sim60^{\circ}\text{C}$ 

Ambient Humidity: 20~85% (no condensation)

Anti-jamming: 1000Vp-p, pulse period 1ms, duration 1 minute

Protection Structure: IP65F Cooling method: natural cooling

Ambience: without corrosive gas and liquid

Download port: RS232

Communication port: RS232/RS422(OP320-A), RS232/RS485(OP320-A-S), RS232(OP320-A-N)

[Functions and Advantages]

Resolution: 192×64 pixels

Display: 3.7" monochrome STN LCD with backlight

Screen Edit: Touchwin software, easy to learn

Buttons: 20 buttons can be set to different functions, replace some buttons on the control

cabinet

Communication: Communicate with various PLCs, such as Siemens, Mitsubishi, Koyo,

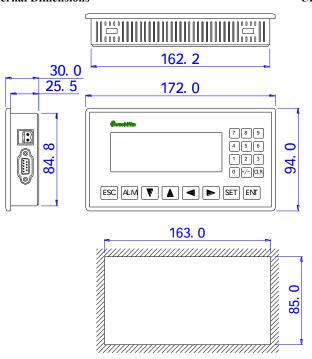
Omron etc.

Special Functions: Alarm list, dynamic text, password

### [Installation]

#### <1> External Dimensions

Unit: mm



This mounting dimension is for your reference, please increase 0~0.5mm for actual needs.

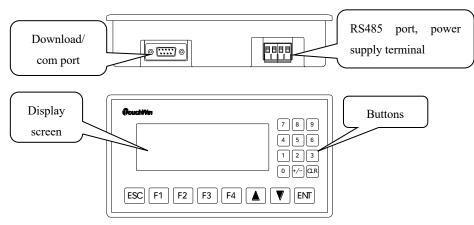
### <2> Fix the product

- --Put the products into the mounting hole.
- --insert the fixed brackets into the mounting holes, then tighten the screw.

Notes: -- The screw should be vertical to the frontal panel.

--Screwing force should be moderate, or it will damage the cover of the product.

### **Connections**



- --Power supply: DC24V
- --download/com port: download and communication port (RS232/RS422/RS485)

# Pin name of Com/download port

#### <1>Download /com Port

OP320-A

OP320-A		
Pin no.	Function	
Pin1	TD+	
Pin2	RXD	
Pin3	TXD	
Pin4		
Pin5	GND	
Pin6	TD-	
Pin7	RTS	
Pin8	RDD-	
Pin9	RDD+	

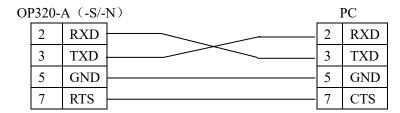
OP320	-A-S
OP320	-A-S

OF 320 -A-3		
Pin no.	Function	
Pin1	TD+	
Pin2	RXD	
Pin3	TXD	
Pin4		
Pin5	GND	
Pin6	TD-	
Pin7	RTS	
Pin8	В	
Pin9	A	

OP320-A-N

Pin no.	Function
Pin1	
Pin2	RXD
Pin3	TXD
Pin4	
Pin5	GND
Pin6	
Pin7	RTS
Pin8	
Pin9	

### <2> Connections of Download Cable



### **Download And Communications**

### <1> Build a New Project

Run the software, click " "; Choose PLC type.

#### <2> Edit the Screen

--Please refer to OP Manual.

#### <3> Download Screen Data

- --Connect the download cable correctly and turn on the power.
- --Click" (; wait until download successfully.

### <4> Communicate With PLC

--Connect with cables correctly, and then it will exchange data with PLC.

**Notes:** --For the detailed using method, please refer to the manual.

--Communication cables are supplied by us or made by yourself as the connection diagram.

## Q&A

Phenomenon	Possible reason	Solutions
The displaying color is	Environmental	Adjust the contrast; Try to decrea
abnormal	temperature >50°C or <0°C	the ambient temperature
Can not Download	Cable is unsuitable; Serial port	Use the correct cable and
	is abnormal	connect the MP with the
		computer correctly
	PLC type is incorrect;	Choose the right type of PLC;
Can not communicate	Something is wrong with the	Ensure the correctness of
	cable; The communication	cables; Set the correct
	parameters are wrong	communication parameters
Sometimes no display or	Strong interference source	Correct wiring ,take actions as
communication abnormal	exists nearby	shielding, insulation and so on
with the buzzer ringing		