

### **XY800 Explosion-proof Touch Panel / Human-machine Interface**

XY800 is a type of explosion-proof human-machine interface by touching operation. The product uses 32-bit RISC CPU and a simplified LINUX kernel, can show a variety of true color graphics formats, and meet the needs of most customers with superior processing speed and rich software features. The XY800 explosion-proof HMI has such functions as direct and indirect on-line simulation, large-capacity memory user configuration program storage space, and standard C language compatible macro commands that meet the customers' needs, and can perform such functions as field data collection, calculation, and control rapidly and effectively.

XY800 explosion-proof HMI supports direct communication with the vast majority of the PLCs, can integrate Profibus-DP \ CAN bus, currently the very popular industrial field communication bus in the area of industrial control, allows for easy data exchange with the devices connected with it , and is widely used in mechanical equipment control systems in hazardous locations with explosive gases and dusts such as petroleum, chemical, light textile, pharmaceutical, mining machinery, metallurgy, electric power or automation control systems of mechanical equipment production lines



#### **Features**

- ✧ 65536 color TFT display, support for import of images in the BMP, JPG, GIF formats
- ✧ High-performance 32-bit 400MHz RISC CPU with fast processing performance to ensure higher efficiency
- ✧ 7 "to 15 "a variety of display sizes
- ✧ Powerful XYFD2000 configuration software features and support for the C language macro script;
- ✧ Support for Profibus-DP, CAN, MPI bus communication, MPI multi-screen, multi-machine networking
- ✧ Free data exchange between any communication ports
- ✧ Safety: suitable for using in the dangerous area with explosive gas Zone 1, Zone 2.

#### **Technical parameters**

#### **Hardware Performance**

Display screen	7", 8", 10.4", 12.1", 15" TFT LCD screen
Resolution	800 x 480 / 800*600 / 1024*768
Color	65536 color
Brightness	300 cd / m <sup>2</sup>
Backlight	LED
LCD Life	50,000 hours
CPU	32 Bit 400MHz RISC ARM926EJ
Memory	128M Flash 64M DDR2 DRAM
RTC	Built-in real-time clock
Ethernet	7" : NA/According to customer requirements Others : Standard
USB port	1 USB Host 1. 1 port: support for U disk memory 1 USB Device 2. 0 Port: Support for USB program download
Download method	Support for download through the USB host port / USB slave port / RS232/RJ45
Serial communication port	COM0/COM1 Port: RS232/RS485/RS422 COM2/ COM3 port: RS232 COM0 and COM2 are isolation protection ports.

### Environmental Specifications

Operating Temperature	N: -20~60°C W: -40~70°C (10.4"以上)
Storage temperature	N: -30~80°C W: -40~80°C
Ambient humidity	10 ~ 90% RH (no condensation)

### Electrical Specifications

Rated Power	5W Max 8W
Rated voltage	DC 24 V ; allowable operating range: DC 18 ~ 32V
Power Protection	Use the isolated power module and have lightning surge protection
Loss of electricity allowed	<5ms
Electrical Interface	7"/10.4" : 3 * 1 / 2 "explosion-proof sealed joints 12.1"/15" : 4 * 1 / 2 "explosion-proof sealed joints
Explosion-proof class	ExdibIIB+H <sub>2</sub> T6 Gb