PWS500 series

Intelligent Operator Interface

- **3 INCH GRAPHICS DISPLAY**
- **RESOLUTION OF 160X80 PIXELS**
- **21 NUMERIC ENTRY KEYS**
- **9 USER PROGRAMMABLE KEYS**
- **FREE CONFIGURATION SOFTWARE**
- **OVER 95 COMMON PROTOCOLS**
- **CUSTOM COMMUNICATIONS SUPPORT**
- **MULTILINGUAL SUPPORT**
- **ISOLATED INPUT/OUTPUT OPTION**
- **POWERFUL PROGRAMMING FEATURE**
- **MULTIPLE UNIT CONFIGURATIONS**
- **OPERATES FROM SINGLE 24 VDC**
- **NEMA 4 RATED PANEL MOUNT**
- **CE CERTIFIED**

The PWS500 series is a low cost yet powerful operator interface panel. A 3.0" LCD with a solid state backlight provides 160x80 pixels for graphics and text. The keypad provides 21 keys for numeric entry and 9 programmable keys. The programmable keys can be defined to perform a variety of functions and can even run a user macro when pressed. The PWS520S-LED include 8 inputs and 8 outputs for even more functionality. For applications requiring more than one operator interface, the PWS500 series can be connected as a slave to other PWS operator interfaces. Other advanced functions of the PWS500 series include: alarm logging, data collection, password protection, data entry confirmation, programmable button response times, and built in multilingual support.

Screen creation and application development for the PWS500 series are performed through a powerful GUI application software, the ADP. The ADP software allows easy configuration of advanced objects including: push buttons, numeric display/entry, character display, multi-state indicators, range indicators, stored message displays, moving signs, bar graphs, deviation bar graphs, trend graphs, pie graphs, X-Y charts, panel meters, state graphics, animated graphics, dynamic rectangles, dynamic circles, user passwords, developer passwords, macros, and ladder logic functions.

With over 95 common communications protocols and the ability to create your own communications routines, the PWS500 series can interface to virtually any serial device through RS-232, RS-422, and RS-485.

PWS500 series

Specifications	PWS500S-LED	PWS520S-LED
Display Type	Monochrome STN LCD	
Display Colors	B / W	
Display Size	3.0 Inch diagonal	
Resolution	160x80 pixels	
Display Adjustment	contrast mechanically adjustable by VR on the back	
Back Light Type	LED	
Digital Inputs and Outputs	none	8 inputs and 8 outputs; 24VDC photocoupler isolation
Keypad	16 mechanical switch with membrane overlay	
CPU Type / system RAM	16 bit embedded controller / 32K Bytes	
Flash Memory	1M Bytes	
Battery Backed Memory	none	
Serial Communications Port	RS232 / RS422 / RS485	
Power Required	+24 VDC regulated / 12 Watts	
Operating Temperature	0 to 50 degrees C	
Storage Temperature	-20 to 60 degrees C	
Ambient Humidity	20 to 90% (non-condensing)	
Front Panel Seal	IP 65 / NEMA 4	
Vibration Endurance	0.5 mm displacement, 10-55 Hz, 2 Hours per X, Y, and Z axis	
Shock Endurance	10g, 11msec, 3 times per X, Y, and Z axis	
RF Emissions	CISPR 22, Class A	
RF Susceptibility	IEC 61000-4-3(EN 55024/1998)	
Electrostatic Discharge	IEC 61000-4-2(EN 55024/1998)	
High Frequency Transients	IEC 61000-4-4(EN 55024/1998)	
Weight	0.65 Kg	
Cooling	Natural Cooling	

● Dimensions(unit:mm)

9-pin Female COM port defined
pin 1 RS422 TX+ (RS485 +)   pin 6 RS422 TX- (RS485-)
pin 2 RS232 RD   pin 7 RS232 R TS
pin 3 RS232 SD   pin 8 RS232 CTS
pin 4 RS422 RX+   pin 9 RS422 RX-
pin 5 SG

CUTOUT DIMENSION

160.8

93.30

160.00

51.79

173.00

105.50

51.00
5.00

92.50

HITECH
ISO 9001