

ST Series Low Cost 3.8" HMI Full Graphic Touch Screen



Full graphic touch screen HMI with animation, trending, alarming and bar code reader support

Features:

- Six function buttons configurable per screen
- RS232/RS422 communications supporting the industry's most popular serial protocols.
- Trending and alarming capabilities with graphical animation
- Bar Code support for security systems and inventory control
- Recipe and scripting functions for batch processing and machine maintenance
- UL Listed Class 1 Div 2 hazardous location approved
- Zero maintenance Amber LED backlight ideal for bright ambient light applications

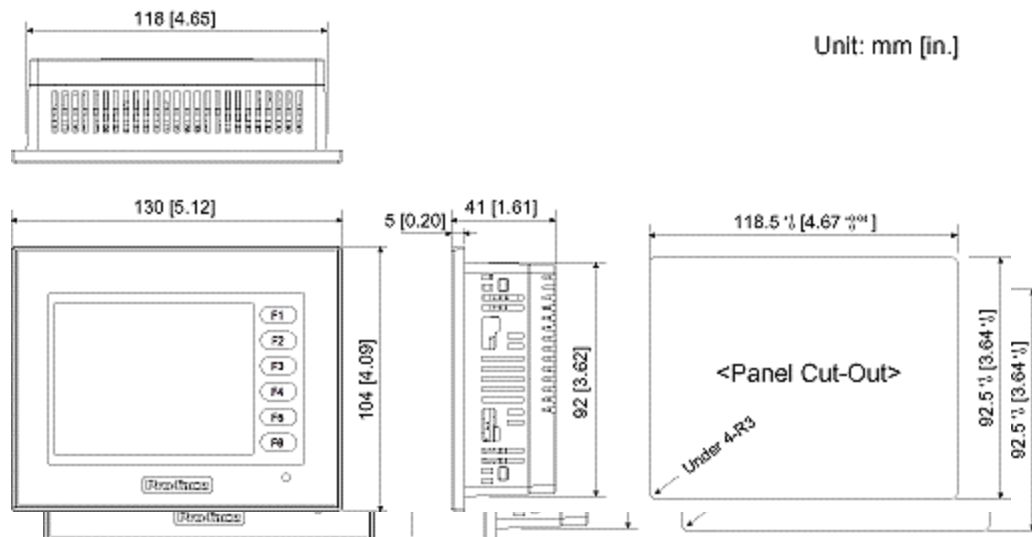


The ST series 3.8 inch amber operator interface replaces hard-wired text displays and pushbuttons with a one panel cutout solution at a fraction of the installation costs. Combined with Pro-face GP PRO application development software, the ST series is capable of providing users with real time trending, active and historical alarming, recipe management, bar coding, and scripting for maximum flexibility. The ST series includes animated graphics clearly displaying an application process or current state.

With over 1800 industry standard objects to choose from for screen development using GP PRO, applications can be quickly developed. The ST series is ideal for applications such as bar code security systems, machine dispensers, auto washers, weigh scale systems, flow and level monitoring, batch processing, assembly line parts counting or any application requiring a small footprint HMI with mid size HMI capabilities.

Dimensions

ST400-AG41-24V/ST401-AG41-24V



General Specifications: (see users manual for complete specifications)

Type/Color

Monochrome Amber colored LCD
Up to 8 levels of gray scale

CPU

100 MHz RISC CPU

Resolution

320 x 240pixels

Touch Panel Resolution

8 x 6 keys/screen1 or 2 point push - selectable

Text/Character size

8x8 dot fonts 40 Char. x 30 rows
8X16 dot fonts 40 Char. x 15 rows
16X16 dot fonts 20 Char. x15 rows
32X32 dot fonts 10 Char. x 7 rows

Display Area

W76.7mm [3.02in.] x H57.5mm [2.26in.]

Backlight

LED maintenance free backlight

Language Fonts

ASCII: Chinese: Japanese: Korean:
Taiwanese:

Application Memory

640KB (Approx. 200 screens at 3.2KB/screen)

Communication Ports:

Baud Rate: 2400 to 115.2Kbps

Data Length: 7 or 8

Stop Bits: 1 or 2

Parity: Odd, Even, None

Expansion Port: (ST402 Only)

RS422, 2400 to 38.4Kbps

Tool Port

Use: data transfer screen development, bar code reader input, etc.

Ambient Operating Temperature

0°C to +50°C

Operating Humidity Range

10%RH to 90%RH

NEMA Rating: (Front Panel)

NEMA #250 Type 4x/12

Agency Certifications:

CE, UL, cUL listed CL1 Div 2 UL508, UL1604

Vibration Resistance:

IEC61131-2 compliant

When vibration is NOT continuous

10Hz to 57Hz 0.075mm, 57Hz to 150Hz
9.8m/s²

When vibration is continuous

10Hz to 57Hz 0.035mm, 57Hz to 150Hz
4.9m/s²

X, Y, Z directions for 10 times (80min.)

Rated Voltage

24VDC Nominal: DC19.2V to 28.8V

Power:

7W or less

Cooling Method

Natural air circulation

Dimensions (External)

W130mm [5.12in] x H104mm [4.09in] x
D41mm [1.61in]

Weight: 400g (1.1lb) or less

Ordering Information:

ST400-AG41-24V 3.8" HMI, RS422 communication, 24V DC

ST401-AG41-24V 3.8" HMI, RS232 communication, 24V DC

ST402-AG41-24V 3.8" HMI, RS485 (Siemens MPI) and RS422 expansion port, 24V DC

Recommended Accessories:

GPRO-CNT01W-P03

Screen development configuration software

GPW-CB02

RS232 9 pin D-sub socket application download cable

GPW-CB03

USB application download cable

CA3-CBL232/5M-01

RS232C cable 5 meter length connect ST401 unit to PLC

CA3-CBL422/5M-01

RS422C cable 5 meter length connect ST400, ST402 unit to PLC

ST400-DF01

Screen protection, hard type sheet