

# Industrial Panel Computer

## IPC E 10.4-ST



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The IPC E 10.4-ST Industrial Panel Computer provides an efficient and user-friendly dedicated operator interface for machine process control applications. Designed for harsh environments, the Industrial Panel Computer can be installed in enclosures or desks close to the machinery.

The panel is capable of displaying a mix of alphanumeric and graphical user data with fast response. IPC has a support for user defined fonts, including languages using graphical fonts, such as Chinese.

Panel's rugged design and IP65 classified front panel, as well as CE-mark acceptance criteria according to the heavy industry requirements enhance the longevity of the applications in the harsh environment of industrial solutions. The back cover is protected against dust.

IPC E 10.4-ST is easily operated with 18 keys on a programmable keypad. Using these keys, the operator can select functions, initiate actions, or select displays.

Designed for industrial use, the 10"4 full colour TFT LCD display of the IPC features a wide viewing angle, sharp contrast and wide temperature range.

# SPECIFICATION

## Interfaces

IPC E 10.4-ST has three isolated interface ports:

1. RS-485
2. Profibus
3. Ethernet

Depending the needs of an application one or more of these interfaces can be used simultaneously. For example Modbus protocol can be used via RS-485 and Ethernet ports. An RS-232 port is also provided as an alternative to Ethernet way for testing and program downloading.

## Applications

Industrial Panel Computer can be used in several various ways:

1. Intelligent process panel configured by our high level Panel Application Generator PAG
2. Remote desktop client (TCP/IP via Ethernet)
3. As a panel computer with Embedded Linux Operating system

Intelligent process panel supports Modbus RTU (slave and master) and Profibus DP (slave) protocols.

## IPC E 10.4-ST Technical Data

Full colour 10"4 TFT LCD display, 640x480 pixels. Typical horizontal and vertical viewing angle: 170 degrees.

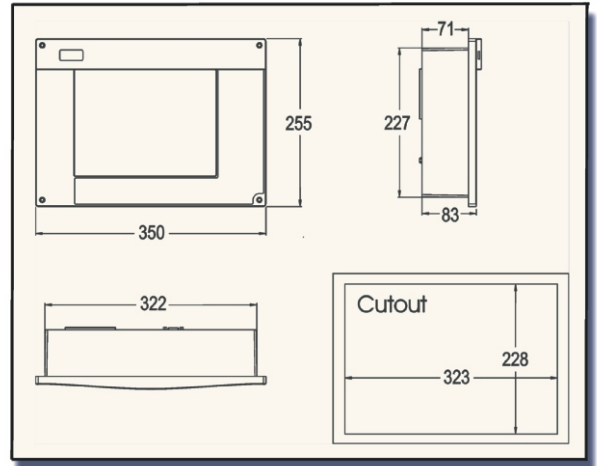
Membrane keyboard with 18 push-button elements

Physical dimensions: width 350 mm, height 255 mm, depth 83 mm (mounting cutout: 323 x 228 mm)

Weight: 5 kg

Power supply: 24V DC nominal (18-36V), optional: 48V DC (38-72V)

Isolated Modbus interface: RS-485, differential, half duplex, multi-drop, 9600 - 57 600 bps, standard Phoenix 8-pin connector MSTB 2.5/8-ST



Isolated Programming interface: RS-232, selectable baud rate, female 9-pin D-connector (9 600-115 200 bps)  
Isolated Profibus interface: Profibus-DP (slave), selectable baud rate, female 9-pin D-connector (9 600-1 500 000 bps)  
Ethernet, 10 Mbs, RJ-45 connector  
Operating temperature range: 0 to +55°C  
Vibration: 5Hz-13,2Hz displacement ±1mm. 13,2Hz-100Hz acceleration of 0,7g.  
EMC approvals: IEC61000-6-4:2001  
IEC61000-6-2:2001

## Accessories

Windows based PAG  
IPC Numeric keypad

## Customized Panel versions

Optional interfaces: LON, CAN, MVB, USB.  
Optional features: Lamps, buzzers, extended temperature range, custom design keypad, various display options

## Ordering reference

10131 IPC E 10.4-ST Industrial Panel Computer  
10135 PAG Panel Application Generator  
10134 IPC Numeric keypad



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