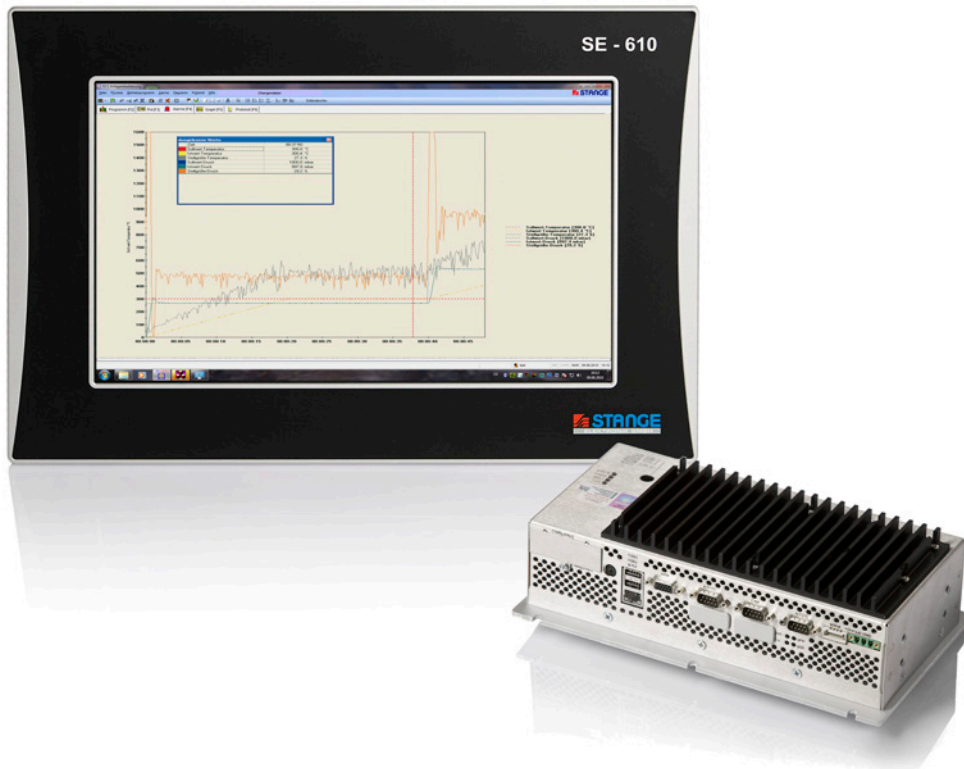


# IPC SE-610

Combined automation solution to operate, monitor and control complex plants



The Panel-IPC is designed for industrial environmental use. The high-contrast 17.4" TFT display ensures excellent image quality in 16:10 format.

Windows 7 is used as the operating system. The IPC is equipped with the ECS process control system for operation. The functional range is customized to customer-specific requirements.

The SE-600-BB (black box control) which is available in the bundle assumes control tasks. The black box is mounted on a top hat rail in the control cabinet. The connection to the IPC is carried out via Ethernet and access to the integrated web server. CANopen and Pro-fibus are available as additional interfaces.

Application fields:

- Huge autoklaves
- Plasma nitriding furnaces
- Continuous furnaces
- ... and much more



# Functions

- Real-time operating system VxWorks for extremely high operating safety
- Freely programmable multitasking PLC according to IEC 61131 (CoDeSys)
- Program controller for up to 50 set values and 64 control tracks
- 8 program loop with 9999 repetitions maximum
- Recipe management
- Up to 50 control zones
- Up to 500 alarms with alarm history
- Auto optimization function for optimal control parameters
- Language switching with unicode language support (Russian, Chinese etc.)
- Freely configurable plant visualization
- Web server: Plant remote operation via Java compatible web browser, identification with user password
- Access to internal controller data via the CoDeSys-OPC-Server supplied
- Multi-programmer for up to 10 units
- Compact Flash 256 MB for configuration
- Interfaces: COM (RS232), Ethernet (100MBit), CAN, PS/2 (PC keyboard), VGA, USB

## Optional:

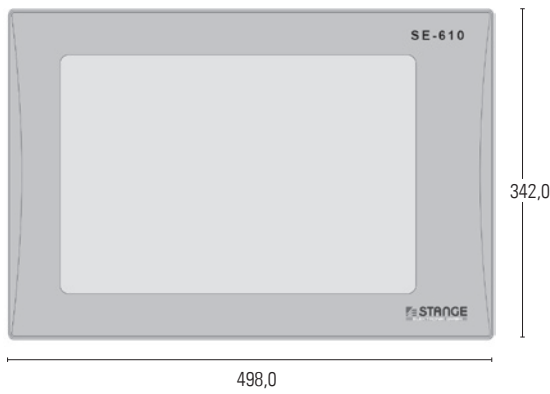
- Profibus DP-master/slave interface
- C-level calculation
- C-diffusion calculation with hardness curve
- Nitriding potential control
- Modbus TCP / Modbus RTU

# IPC SE-610

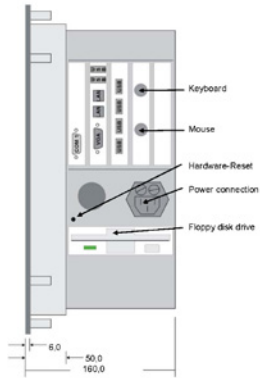
Combined automation solution to operate, monitor and control complex plants

## Dimension Diagram (mm)

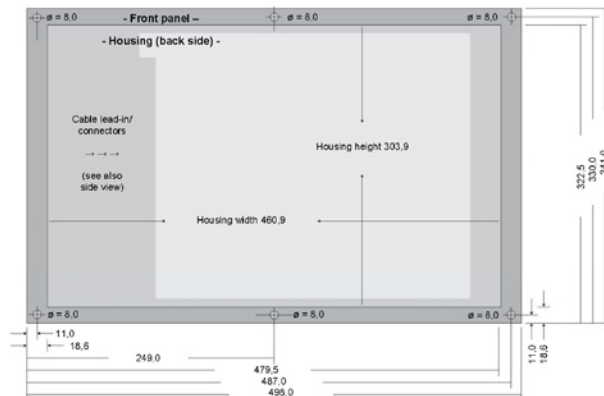
### Front view



### Side view



### Rear view



Technical Data SE-610	
Display	17.4" XGA (1280x768 pixels)
Type of display	TFT colour display
Processor system	starting from Intel Core 2 Duo M 2GHz
Main memory	2 GB / DDR2
Hard disk	2.5" > 80GB/SATA (industrial grade)
Drives	Floppy drive
Slots	- Bus board with 1xPCI, 1xISA and 1xPISA (reserved by CPU board) - One free slot for further interfaces
Front panel	Foil front panel (IP65)
Keyboard/Mouse	Connection for external keyboard and PS/2 mouse (keyboard and mouse not included in delivery)
Network	2x onboard 10/100/1000 MBit
USB	6x USB (2.0)
Serial	1 (RS232)
External monitor	1 x VGA
Voltage supply	110 ... 230 V / 50 ... 60 Hz
Protection class	IP65 (front panel)
Operating temperature	+5 ... +50 °C
Operating systems	Windows 7 Ultimate German or Multi-Language
Housing	19" housing, 7RU 155mm depth
Dimension	498 x 342 mm, depth 155 + 5mm front panel
Weight	10.1 kg

Technical Data SE-600 Blackbox	
Connection	24V DC
Power consumption	approx. 24W
Processor system	Pentium based 32bit processor, 600 MHz
Main memory	battery backed SRAM 32kByte, main memory 256MB DRAM
Drives	internal CompactFlash 256MB for firmware and data (programs and batches)
Interfaces	COM(RS232/RS422), Ethernet(100MBit), CAN, PS/2(PC keyboard), USB (memory stick), ext. monitor (VGA), USB
Dimension	290 x 151 x 90 mm (WxHxD)
Option	Profibus DP-master/slave interface
Weight	approx. 2.5 kg