ATSEL HMI (Human Machine Interface) 4.3",7" & 10" HMI



Features :

- 4.3", 7" & 10" Touch screen
- Ethernet / Serial communication
- User / Recipe management
- Address mapping
- Update program by USB flash
- Multiple communication protocols
- In-Built symbol library
- Alarms, Calender, Real time clock

Certification : CE

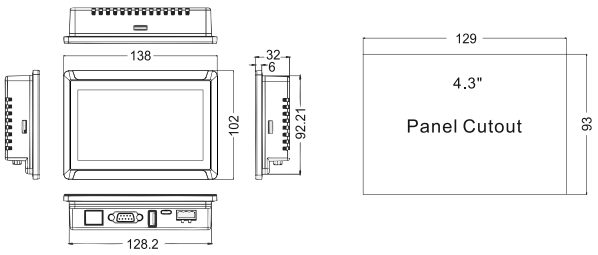
Technical specifications

Display specifications	SP112-GT40	SP112-GT70	SP112-GT100
Type	4.3" TFT Touch screen (65536 colors)	7" TFT Touch screen (65536 colors)	10" TFT Touch screen (65536 colors)
Resolution	480×272 Pixels	800 x 480 Pixels	1024 x 600 Pixels
Display size	4.3" Diagonal	7" Diagonal	10" Diagonal
Backlight	LED		
Brightness	300cd/m2		
Span life	30000 hrs		
LCD Type	4 Wire high precision resistance network		
Functional specifications			
Programming method	Windows based software for HMI configuration.		
Processor	1GHz Quad code	A8 600MHz	
OS	Linux 4.9.11 QT based		Linux 4.4.0 QT based
Memory	256M Flash+128M DRAM		
USB Host	USB2.0 x 1, Support USB flash disk to update firmware, Configure and store data		
USB Slave	Type C, Support power supply & program download / upload	Type B, Program download / upload only	
Serial interface	COM1: RS485 / 422 COM2: RS232	COM1:RS485 / 422 COM2: RS232 COM3: RS485	COM1: RS485 COM2: RS232
Ethernet	RJ45 10M / 100M self-adaption. communicates with PLC & PC, Multiple HMI online. default IP is 192.168.1.100 (Optional for ET & Et1 models only)		
DB9	Male (COM1 and COM2)		
Mechanical specifications			
Dimensions (W x H x D)mm	138×102×32 mm	200 x 146 x 32 mm	273 x 193 x 32 mm
Panel cutout (W x H)mm	129 × 93mm	192 x 138 mm	261 x 180 mm
Mounting	Panel mounting		
Weight	400 gms	750 gms	1 Kg
Ingress protection	IP65		
Cover material	ABS+PC plastics		
Electrical specifications			
Power supply voltage	24V DC (20.4~28.8V DC), 0.3A		
Rated power	3W	7W	
Permissible power loss	10 mSec		
Insulation resistance	Over 50 mΩ @ 500V DC		
Withstand voltage performance	500V AC 1 min		

Environmental specifications		
Temperature	Storage : -20 ~ 60° C	Storage : -20 ~ 70°C
Humidity	10 ~ 90% RH (Non-condensing)	
Seismic performance	10 ~ 25Hz (2G / 30min in x, y, z directions)	
Certification		
Protection level of front panel	Comply with IP65 certification (4208-93)	
CE Certificate	According to CE Certification (EN61000-6-2:2005 / EN61000-6-4:2007)	

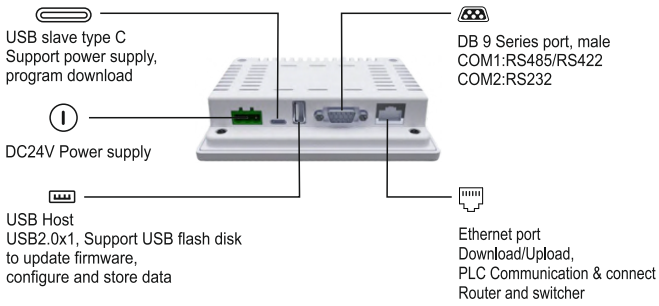
Dimensions & External ports (All dimensions are in mm)

Panel cutout — **4.3" HMI**



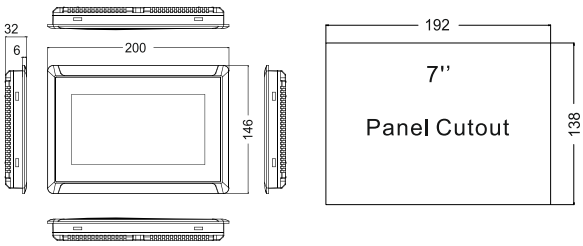
SP112-GT40-S1-CE , SP112-GT40-ET1-CE

4.3" HMI



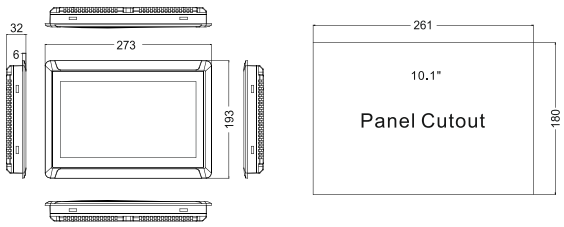
SP112-GT40-S1-CE , SP112-GT40-ET1-CE

Panel cutout — **7" HMI**



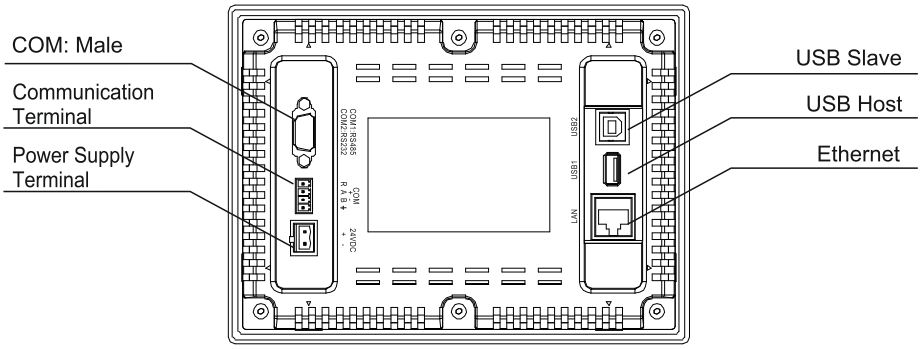
SP112-GT70-S1-CE , SP112-GT70-ET1-CE

Panel cutout — **10" HMI**



SP112-GT100-ET1-CE

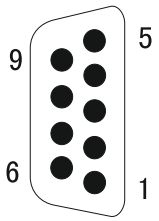
7" HMI — **10" HMI**



SP112-GT70-S1-CE , SP112-GT70-ET1-CE
SP112-GT100-ET-CE

Configuration

DB9 Pin

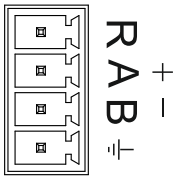


Interface	PIN	PIN Definition
COM2	1	——
	2	RS232 RXD
	3	RS232 TXD
	4	——
	5	GND
COM1	6	——
	7	RS485+(A)
	8	RS485-(B)
	9	——

Caution:
In RS485 communication, out of serial port & communication terminal, only one can be chosen. Two of them can't be used at the same time.

Terminal

Communication Terminal is a 4 pin removable terminal, which supports RS485 communication. A built-in 120 ohm resistance is used for longer distance communication (more than 300-meters), user can manually short Pin 1 & Pin 2 to suppress communication interference.



Port	PIN	Pin Definition	Remarks
COM3	1	R	120Ω Terminal resistance
	2	RS485 +	(A)
	3	RS485 -	(B)
	4	PE	Shield ground

Ordering information

Product Code	Description
SP112-GT40-S1-CE	4.3" Touch screen HMI with serial ports
SP112-GT40-ET1-CE	4.3" Touch screen HMI with ethernet & serial ports
SP112-GT70-S1-CE	7" Touch screen HMI with serial ports
SP112-GT70-ET1-CE	7" Touch screen HMI with ethernet & serial ports
SP112-GT100-ET1-CE	10" Touch screen HMI with ethernet & serial ports

Accessories
AC-USB-USB-02-1M (USB Type C - Downloading cable)
AC-USB-USB-01-1M (USB Type B - Downloading cable)