

AS45TFT0703

- Resolution 800 x 480 pixels
- Touch matrix, TFT LCD
- 7" diagonal
- 65535 Colours support
- LED Backlight
- 5 Serial interfaces
- Ethernet interface
- FTP Server
- VNC Server
- USB Client
- USB Host
- IP66 Protection
- Free utility software

The AS45TFT0703 operator panel is equipped with a graphic operator screen with a resolution of 800 x 480 pixels, has an active 7" touch matrix and supports 65535 colours. The panoramic operator screen and high resolution allow you to imitate the controlled process accurately on the panel screen, which has a significant impact on speeding up operation.

The panel is equipped with three independent communication interfaces derived physically on one DB9 port, working in the following standards: COM1 - RS232, COM2 – RS422/485 and COM3 – RS485.

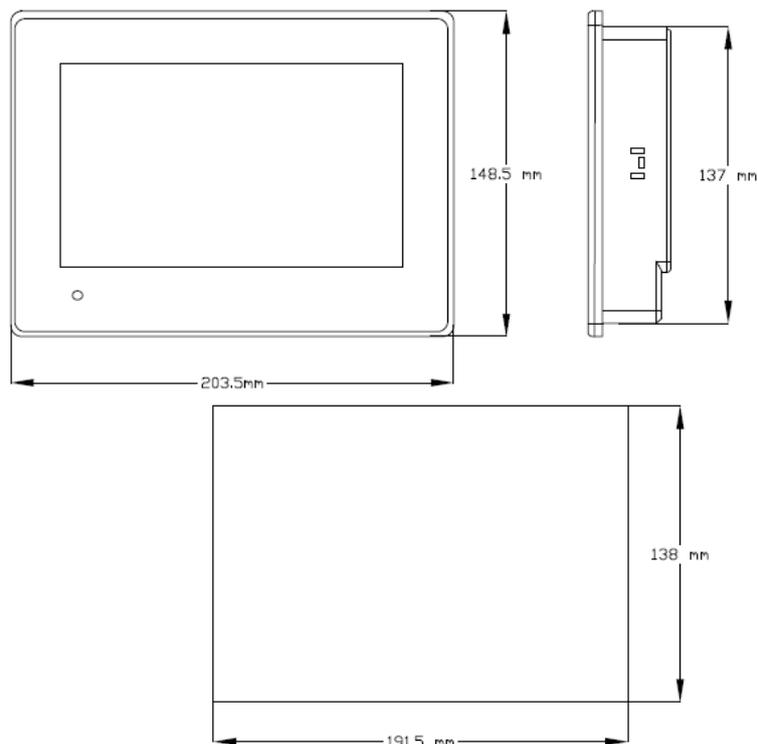
By default, the panel is also equipped with an Ethernet port, USB Host and Client port. Built-in 64 MB RAM and 64 MB Flash Memory allows you to build complex visualization applications that support animated graphic objects, bitmaps and animations on screen. The panel has an additional 64 MB of memory intended for program and historical data as well as 128 kB of battery-backed memory to store process data.

The operator panel is programmed using the Astraada HMI CFG software, which allows you to configure alarms, trends, recipes, logging historical data and events. The functionality and capabilities of the panel are enhanced by the support of program macros and multilingual applications. Panels programmed in the Astraada HMI CFG from version 2.0.0 provide new feature of remote control via the VNC protocol.

Panel features:

- 7" colour operator screen with touch matrix
- 65535 colours support
- Resolution 800 x 460 pixels
- Widescreen display
- Built-in 5 serial communication ports
- Built-in Ethernet port with support for FTP Server and VNC Server
- Built-in USB Client and Host port
- Support for over 280 communication protocols
- Available security, data collection, alarms, recipes and trends functions
- Low power consumption
- Small dimensions

The AS45TFT0703 operator panel is equipped with a LED on the front, which shows the power supply status. The front of the panel has IP66 protection, making it water resistant. Additionally, it is coated with a scratch-resistant protective film.

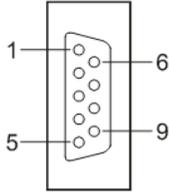


PARAMETERS

Operator screen	
Resolution	800 x 480 pixels
Diagonal	7"
Number of colours	65 536 colours (16-bit)
Screen type	Touchscreen, TFT
Brightness	350 cd/m ²
Backlight	LED, 20 000 hours, contrast adjustment via the system registry
Keyboard	Virtual available on the panel screen
LED	PWR
Memory	
Flash Memory	64 MB
SDRAM Memory	64 MB
Nand Flash Memory	64 MB
Battery-backed Memory	128 kB
Battery backup	5 years
Communication	
Serial port 1	RS232
Serial port 2	RS422/485
Serial port 3	RS485
Serial port 4	-
Serial port 5	-
USB Client	YES
USB Host	YES
Ethernet Port	YES
MicroSD memory cards	NO
FTP Server	YES
VNC Server	YES
Audio outputs	NO
Other parameters	
Nominal power supply	24VDC
Allowable supply voltage range	24VDC ±10%
Power consumption	20 W at 24 VDC
Panel dimensions	203.5 x 149 x 36 mm
Mounting hole dimensions	191.5 x 138 mm
Working temperature	-10 ~ 60°C
Storage temperature	-20 ~ 60°C
Humidity	10 ~ 90% RH @ 50° C, no condensation
Vibration resistance	10 – 55 Hz for 30 min in all directions
Shock resistance	1G in all directions
Level of security	Front panel: NEMA4, IP66
CE Certificate	EN61000-6-2, EN61000-6-4
EMI Certificate	FCC Part 15 Class A
Functionality	
Program macros	YES
Current trends	YES
Historical trends	YES
Storage of historical data	YES
Event storage	YES
Alarms	YES
Recipes	YES
Multilingual applications	YES
Animated graphic objects	YES

COM1, COM 2 AND COM3 PORTS

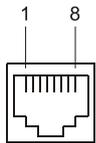
COM1, COM2 and COM3 ports are bi-directional transmission channels in RS232/422/485 standard. These ports are used for communication with other devices.



Pin	Signal	Port	Feature
1	TX+, Data +	RS422, RS485 (COM2)	Output signal Transit Data (+)
2	RXD	RS232 (COM1)	Input signal Receive Data
3	TXD	RS232 (COM1)	Output signal Transmit Data
4	RX+	RS422 (COM2)	Input signal Receive Data (+)
5	SG	GND	Reference signal 0V/GND
6	TX-, Data -	RS422, RS485 (COM2)	Output signal Transit Data (-)
7	+	RS485 (COM3)	Output signal Transit Data
8	-	RS485 (COM3)	Input signal Receive Data
9	RX-	RS422 (COM2)	Input signal Receive Data (-)

ETHERNET PORT

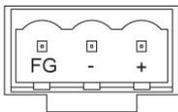
The Ethernet port is used for programming and communication with other devices.



Pin	Signal
1	TX D1 +
2	TX D1 -
3	RX D2 +
4	B1 D3 +

Pin	Signal
5	B1 D3 -
6	RX D2 -
7	B1 D4 +
8	B1 D4 -

POWER



Pin	Signal
1	FG
2	-
3	+