

## 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.

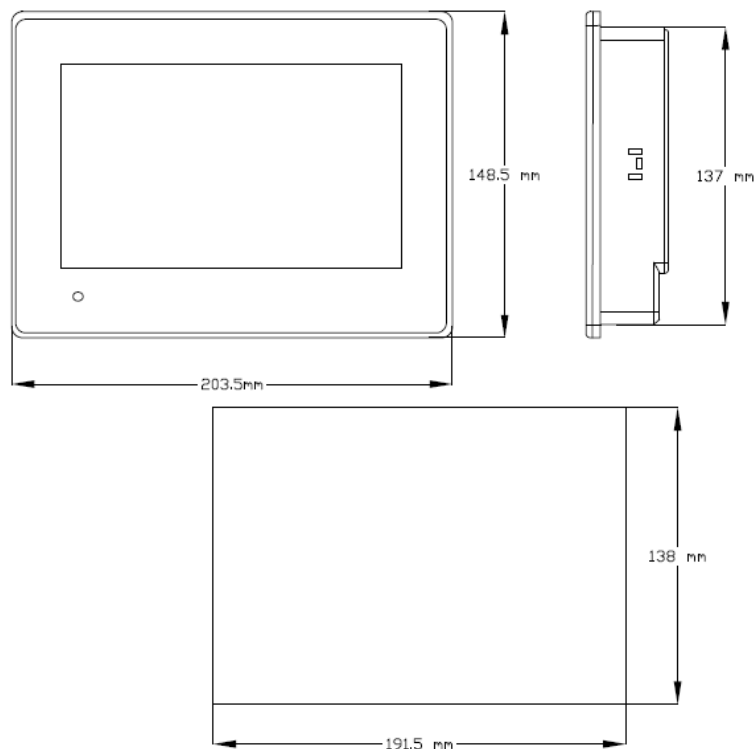
By default, the panel is also equipped with an Ethernet port, USB Host and Client port. Built-in 64 MB RAM and 64 MB Flash Memory allows you to build complex visualization applications that support animated graphic objects, bitmaps and animations on screen. The panel has an additional 64 MB of memory 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.

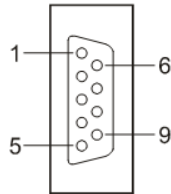


## PARAMETERS

<b>Operator screen</b>		
Resolution		800 x 480 pixels
Diagonal		7"
Number of colours		65 536 colours (16-bit)
Screen type		Touchscreen, TFT
Brightness		350 cd/m <sup>2</sup>
Backlight		LED, 20 000 hours, contrast adjustment via the system registry
Keyboard		Virtual available on the panel screen
LED		PWR
<b>Memory</b>		
Flash Memory		64 MB
SDRAM Memory		64 MB
Nand Flash Memory		64 MB
Battery-backed Memory		128 kB
Battery backup		5 years
<b>Communication</b>		
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
<b>Other parameters</b>		
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
<b>Functionality</b>		
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

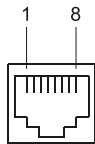
COM1, COM2 and COM3 ports are bi-directional transmission channels in RS232/422/485 standard. These ports are used for communication with other devices.



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

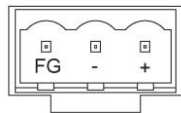
The Ethernet port is used for programming and communication with other devices.



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	+