

PureTools - 10" Programmable Touch Panel for Central Control or User Terminal

PT-CON-TP100 – 10" Programmable In-Wall Touch Panel: Integrated AV Control and User Interface for Fixed Installations
The PT-CON-TP100 is a 10" in-wall programmable touch panel engineered for AV control and user interaction in professional environments such as multimedia rooms, conference spaces, training centres, and industrial automation sites. Its slim modern form factor enables elegant high profile integration, while the large capacitive touch display provides clear user input. The unit operates on Android 11 with robust hardware resources, supporting both touch control and terminal modes. Dual power options and comprehensive network protocol compliance facilitate reliable deployment across diverse AV infrastructures.

- **Android 11 Platform with Expanded Memory:** Utilising an ARM Cortex-A55 architecture at 1.8GHz, the panel runs Android 11 with 4GB DDR4 RAM and 32GB eMMC storage. This configuration supports responsive operation, rapid interface loading, and secure handling of complex AV control tasks in meeting rooms or automation environments.
- **10" Capacitive Touch Display:** The 1280x800 resolution colour screen provides a 1:1 aspect ratio for clear visual feedback and intuitive control. Its capacitive technology ensures accurate touch response, supporting interactive workflows in control rooms, showrooms, and broadcast studios.
- **Dual-Mode Operation:** The panel functions as either a dedicated touch control interface or a user terminal, selectable according to installation requirements. This dual capability enables flexible deployment in multi-functional halls or hybrid AV systems.
- **Comprehensive Control Software:** Integrated configuration software allows interface design and programming through IDE tools, eliminating the need for prior coding experience. Password-protected web access and support for factory reset enhance security and maintainability in managed AV networks.
- **Gigabit Ethernet and RS-485 Connectivity:** Equipped with a 1Gbps LAN port and a configurable RS-485 serial interface (supporting 8 baud rates from 2400–115200bps), the panel ensures reliable communication with AV devices and system controllers in both legacy and IP-based installations.

Versatile AV Control for Professional Environments
By combining a high-performance Android platform, flexible dual-mode operation, and comprehensive connectivity, the PT-CON-TP100 supports centralised AV control and user interaction across a wide range of fixed installations. The unit provides a technically robust solution for integrating touch-based control into automated office systems, multimedia conference rooms, and industrial automation projects, addressing common requirements for secure, scalable, and intuitive AV management.



Features

- Android 11 OS with 4GB DDR4 RAM and 32GB eMMC
- 10" colour touch display (1280x800) in custom in-wall design
- Dual-mode operation: use as a touch control panel or as a user terminal
- Intuitive comprehensive control software - no programming knowledge required
- Reliable connectivity: Gigabit Ethernet plus RS-485 serial control

Specifications

Design	
Backlight type	LED
Customizable buttons	Yes
Display	
Touchscreen technology	Capacitive
Display type	LED
Display resolution	1280 x 800
CAT	
Power over Ethernet (PoE)	PoE (802.3af)
General Information	
Dimensions (WxDxH)	245.40 mm x 164.00 mm x 27.00 mm
Gross weight	826 g
Mounting	Wall bracket
Housing colour	Space Grey
Operating temperature (T-T)(°C)	from 0 °C to 40 °C
Operating relative humidity (H-H) (%)	from 20 % to 80 %
Storage temperature (T-T)(°C)	from -20 °C to 60 °C
Storage relative humidity (H-H)(%)	from 10 % to 90 %
Certification	CE
Network	
Ethernet LAN data rates	10M/100M/1000M
Supported network protocols	TCP/IP, Http, UDP, Websockets
Ports & interfaces	
Other	1x TCP/IP (RJ45), 1x RS485 (3 pin Phoenix), 1x Debug (Micro USB)
Technical details	
CPU	ARM Cortex-A55 1.8GHz
Operating System	Android 11
Flash memory	32GB EMMC Flash
RAM	4GB DDR4 RAM
DC voltage (max)	24 V
DC current (max)	1 A
Power consumption (average operating)	6 W

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