

TPS-700M-AIR10

7" Touch Screen 10-in-1 Indoor Air Quality

TPS-700M-AIR10

Recently Edited: October 27,2023

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TPS-700M-AIR10

7" Touch Screen 10-in-1 Indoor Air Quality

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and Wiring

Wiring example



TPS-700M-AIR10 provided by SCHIDERON can be applied in various scenarios, including smart buildings, smart factories, smart education, and smart transportation. It is suitable for use in homes, bookstores, factories, airports, hotels, conference rooms, classrooms, courts, and other places. It can integrate multiple sensor types into a single unit and provides a touchscreen display and control, making the design more avant-garde and simpler.

TPS-700M-AIR10 is equipped with a built-in 10-in-1 IAQ sensors that can simultaneously measure various pollutants in the surrounding air, including PM1.0, PM2.5, PM10, CO2, CO, TVOC, CH2O, O-Zone, temperature, and humidity. It is suitable for air monitoring, home purification, industrial monitoring, and other fields. It can enhance the accuracy and precision of data, eliminate interference and errors from a single sensor. By diversifying data sources, it strengthens the reliability and stability of data, allowing for monitoring and analysis of the target from multiple perspectives and expanding the scope and dimension of data acquisition.

TPS-700M-AIR10 allows for editing the control interface and content as per requirements. With a clean, convenient interface, intuitive icons, instant feedback signals, and real-time status display, it simplifies modern upscale living without compromising on excellence. It embodies different control modes, including independent control, multi-combination control, and scene modes, all centralized on a single TPS-700M-AIR10.

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- 7-inch LCD display with a resolution of 1280x800
- Support independent control, multi-combination control, and scene mode control
- Editable interface content and style, customizable interface using WeControl
- Icon control functions with flexible style editing
- Customizable control objects
- Support distance sensing

Integrated with ten sensor types to meet detection requirements in different scenarios, it can simultaneously measure multiple environmental parameters, enabling customers to monitor air pollution and promptly remove harmful substances.

Custom and editable interfaces via WeControl

Tailored to different customer needs and interior decor styles: control functions, icons, and interface styles can be customized to seamlessly match the overall decor.

Custom control content

Independent control, multi-combination control, and scene mode control, allowing you to edit the control functions of each icon to reflect convenience and smart functionality as per your requirements.

Personalized requirements

WeControl offers rapid page editing through graphical, drag-and-drop operation, and it supports extending personalized needs with zero/low code. The clean and distinct page design seamlessly integrates with other applications.

Integration with multiple devices

Wecontrol supports reusable plugins for connected device systems, enabling agile development. It provides visual configuration capabilities for common scenarios, allowing for minimal code to complete page programming and reducing development time.

Distributed System

Designed as a distributed system, each touchscreen has an independent processing chip (CPU) with local data processing and computing capabilities.

Distance Sensing

When the touchscreen is in a black screen state, it will instantly light up and allow for control operations when a person or moving object approaches the touchscreen.

Sensors and energy efficiency

An embedded distance sensor allows the touchscreen to enter a power-saving mode on a timer, automatically activating the screen to a dimly lit state when a person is within 150mm, providing both energy efficiency and intelligence.

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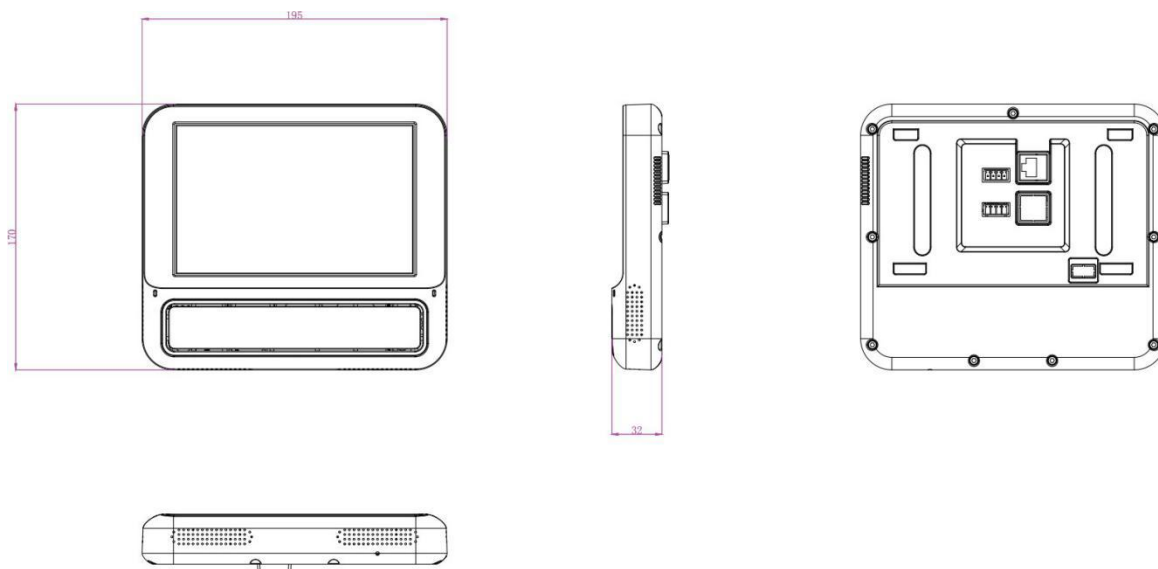
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Product Specification



Technical Specification

Hardware

CPU: 4 core

RAM: 4GB LPDDR4

ROM: 8GB EMMC

Display: 7" TFT LCD (color)

Touch Screen: capacitive

Resolution: 1280 × 800

Backlit LED: Yes

Viewing Angle: $\pm 69^\circ$, $V+62^\circ/-64^\circ$

Systems& Protocol OS:

Android 10.0

Protocol: TCP/IP

Home Automation:

S-Net (Framework)

Dimension L:

195mm (7.68 in)

W: 170mm (6.69 in)

D: 32mm (1.26 in)

Power Supply & Protection

PS :DC 24V& POE

Working Current: $\leq 280\text{mA}$

Standby Current: $\leq 200\text{mA}$

Working Temperature: $-10^\circ\text{C} \sim +50^\circ\text{C}$

Working Humidity: 20%~85%

Case Material

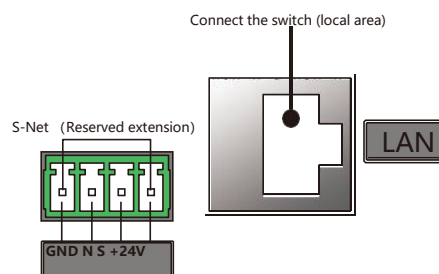
ABS+PC

UL94-V0 5VA (2.0mm)

Terminal:

CE 450V/20A 2.5m² PA66 UL94-V0

5VA (2.0mm)



Standard

CE & FCC

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Sensor Types

Sensor	Unit	Principle	Sensing Range	Accuracy	Resolution
Temperature	°C or °F	Semi-Conductor	-40°C--100°C	± 0.5°C	0.1°C
Humidity	%	Semi-Conductor	0-99%	± 3%RH	0.1%RH
PM1.0	ug/m3	Laser Dust	0-1000ug/m3	0-100ug/m3: ±10ug/m3; 101-1000ug/m3: ±10%	1ug/m3
PM2.5	ug/m3	Laser Dust	0-1000ug/m3	0-100ug/m3: ±10ug/m3; 101-1000ug/m3: ±10%	1ug/m3
PM10	ug/m3	Last Dust	0-1000ug/m3	0-100ug/m3: ±10ug/m3; 101-1000ug/m3: ±10%	1ug/m3
CO2	ppm	Non-dispersive IR	400-5000 ppm	±(50+3%)	1ppm
CO	ppm	Electro-chemistry	0-1000ppm	0-100ppm: ±1ppm 101-1000: 3%	0.1ppm
TVOC	ppb or ug/m3	Semi-Conductor	0-5000ug/m3	≤±10%	1ug/m3
H2CO	ppb or ug/m3	Electro-chemistry	0-1500ug/m3	≤±10%	1ug/m3
OZone	ppb	Electro-chemistry	0-10ppm	≤±2%	1ppb

Product Wiring and Operating Instructions

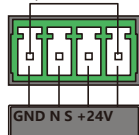
Power Supply:

1) DC 24V

For example: RS-75-24 "V+" & "V-" connect to TPS-1005M "24V" & "GND" ;

2) PoE

S-Net (ForXEndue Framework)



RS-75-24Port	V+	V-
Port function	24V	GND

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