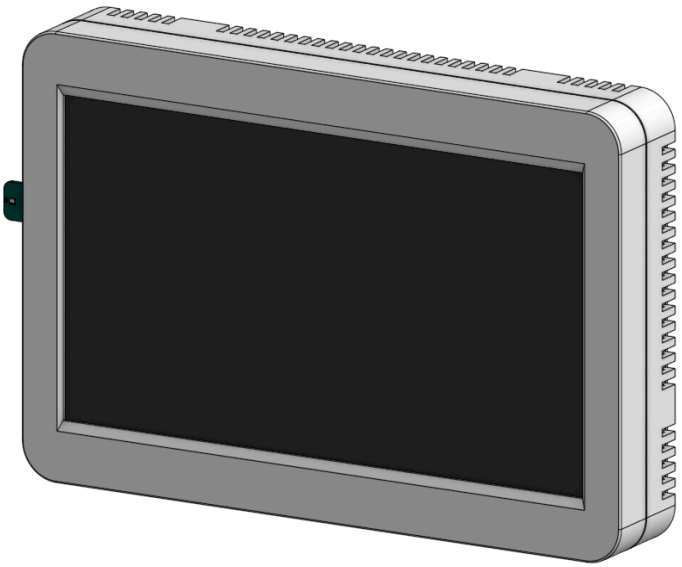
Touch Point LCD

This wall-mounted touchscreen is designed for use in IoT-enabled HVAC and Building Management Systems (BMS). It provides a local control interface and environmental sensing node for managing split ducted air conditioning units that are UART compatible, within residential or light commercial settings.



Optimised for smart home and HVAC retrofit environments, enabling smooth interaction between users and connected systems.

Offers precise real-time control and monitoring across multiple temperature zones.
Connects easily to centralized BMS platforms via RS485 with support for Modbus RTU and custom integrations.
Features an intuitive user interface for quick adjustments to setpoints, fan modes, and schedules.
Leverages integrated temperature and humidity sensors to enable intelligent environmental feedback and energy-efficient automation.

Technical Data

General	
Model Number	TP-01-N1-****** ****** Reserved for product finishes (i.e colour or stickers)
Dimensions	180.97mm x 112.55mm x 17.5mm or 7.13 in × 4.43 in × 0.69 in
Power Supply	24V DC/AC power supply
MCU Interface	ESP32-S3
Mounting	Wall mounted application
Operating Temperature	-10 to 60 degrees celsius
Operating Humidity	Maximum: 90% RH
Material type	LCD Housing: White ABS Plastic LCD Panel: Glass, Liquid Crystal, Polarizer, LED
Compliance & Certification	RCM, CE and FCC Certified

Screen Specifications	
Screen Size	7 inches
Screen Resolution	1024x600
Screen Type	Capacitive touch IPS
Brightness (nits)	Maximum brightness 1200 nits
Connectivity	
Wi-Fi	Wi-Fi 802.11 b/g/n connectivity
RS485	1x RS485 ports available for Modbus RTU. Speeds: 9.6K, 19.2k, 38.4K, 57.6K, 115.2K bit/s Data Bits: 8 bits Parity: None, Even, Odd
Serial Ports	1x USB-C Port
Peripheral Sensors	
Temperature	Operating Range: –40°C to 85°C Accuracy: ±0.2°C
Humidity	Operating Range: 0% to 100% Accuracy: ±2% RH

About Nube iO

At Nube iO, we make buildings smarter. From enterprise and industrial portfolios to light commercial and smart homes, our scalable, data-driven technology bridges BMS and IoT to connect devices, systems, and spaces - giving users simpler control, clearer visibility, and more sustainable operations.

Built to scale from single sites to entire portfolios, our ecosystem — including traditional controls, wireless sensors, protocol-ready gateways and licence-free programming software — delivers seamless integration and real-time optimisation. Backed by global expertise and a focus on innovation, we make building automation smarter, simpler, and future-ready.

Smarter Buildings. Forward Thinking.

Unlock smarter, more sustainable building operations — book a demo at **nube-io.com**

Document Code	TP-LCD-2512
Person Responsible	BTJ
Date Last Updated	05/12/2025
Status	Revision V1.0
Location	Certification Gen 2/Documents_for_Certification

FCC Caution.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.