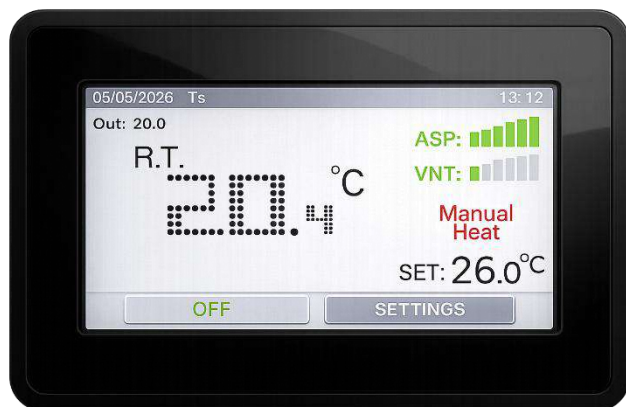


TCP Series

Control Panels

20260415R1

Technical Catalogue



The **Havkon TCP.3043** is a modern touch control panel designed specifically for HVAC and heat recovery unit (HRU) applications, providing an intuitive user interface and reliable system control. It enables users to monitor and manage key operating parameters easily through a clear and responsive display.

Equipped with a **4.3" color touch screen**, the device offers real-time visualization of room temperature, setpoint, operating mode, fan levels, and system status. Its user-friendly interface allows quick adjustments, ensuring efficient and comfortable operation in heat recovery ventilation systems.

TCP.3043 communicates with HVAC controllers via **Modbus RTU (RS-485)**, allowing direct control and monitoring of heat recovery units (HRU/ERV systems) over the Modbus network. The panel is designed to provide centralized operation for ventilation systems, including fan control, temperature management, scheduling, and alarm monitoring.

Available in **black and white housing options**, the device offers a modern appearance suitable for various commercial and residential installation environments.

Features

- **4.3" Color Touch Display**
- Modern **User Interface (UI)** with Intuitive Navigation
- **Real-Time Monitoring** of System Parameters
- **Modbus RTU Master (RS-485)** Communication
- **Weekly Scheduling** Function
- **Advanced Parameter Configuration via Touch Interface**
- **Password Protected Access**

Order Codes

TCP.3043.W	Touch Control Panel with White Plastic Case
TCP.3043.B	Touch Control Panel with Black Plastic Case

Warnings



Before installing and operating the device, carefully read the user manual and the instructions below.

- The user is responsible for any damage, loss, or injury caused by improper use or failure to follow these instructions.
- Do not modify, disassemble, or attempt to repair the device.
- Ensure correct supply voltage before powering the device.
- Disconnect power before installation and wiring.

Failure to comply with these instructions may result in device malfunction and will void the warranty.

TCP Series

Control Panels

20260415R1

Technical Catalogue

Technical Specifications

Electrical Data	Power Supply	24 VDC ±10%
	Power Consumption	3 W
	Connection	Terminal block, 1.5 mm ²
	Communication	Modbus RTU (RS-485)
Environmental Conditions	Operating Temperature	0 ... +40°C
	Storage Temperature	0 ... +70°C (without icing and condensation)
	Relative Humidity	Max. 80% RH (non-condensing)
User Functions	Display	4.3" Color Touch Display (480x272 px)
	User Interface	Touch Interface
	Control Mode	Manual / Automatic
	Fan Control	Multi Speed Control
	Weekly Program	Available
	Parameter Access	Via Touch Interface
Protection & Standards	Protection Degree	IP 20
	Standard	EN 60529
	Housing	PC Plastic Enclosure
	Color Options	Black / White

Enclosure Specifications

Mounting	Wall mounting
Dimensions	W128xH90xD20mm (Width x Height x Depth)
Front Panel Size	W95xH55mm
Weight	175 g

Connections

The device must be installed and operated in accordance with applicable electrical regulations.

- Ensure that the power supply is disconnected before installation and wiring.
- Use appropriate cable cross-sections according to load and installation conditions.
- Do not route signal cables together with power cables.
- Protect the device from moisture, dust, and vibration.

Recommended: Use an external fuse (max. 2 A) for supply protection.

TCP Series

Control Panels

20260415R1

Technical Catalogue

User Interface & Operation

The home screen provides real-time system information and direct access to key control functions.

- Monitor **room temperature (R.T.)** and system status in real-time
- Tap **SET temperature** to adjust the desired setpoint
- Tap **Mode area** to select operating mode (Manual Heat, Cool, Auto, Fan)
- Tap **ASP / VNT indicators** to adjust fan speed levels
- Use **OFF** to turn the system on or off
- Tap **SETTINGS** to access advanced configuration

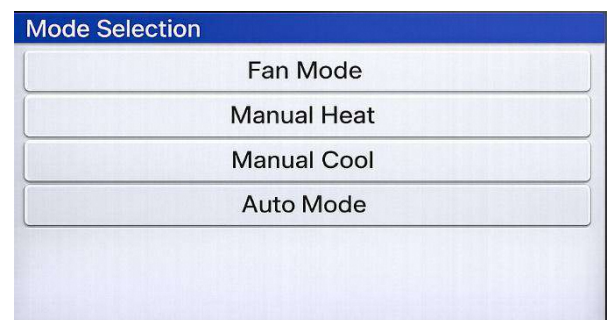
ASP / VNT indicators represent fan level controls.



Operating Modes

The device supports multiple operating modes, allowing flexible operation based on system requirements. Modes can be selected directly via the touch interface.

- **Fan Mode** – Ventilation only (no heating or cooling)
- **Manual Heat** – User-defined heating operation
- **Manual Cool** – User-defined cooling operation
- **Auto Mode** – Automatically switches between heating and cooling



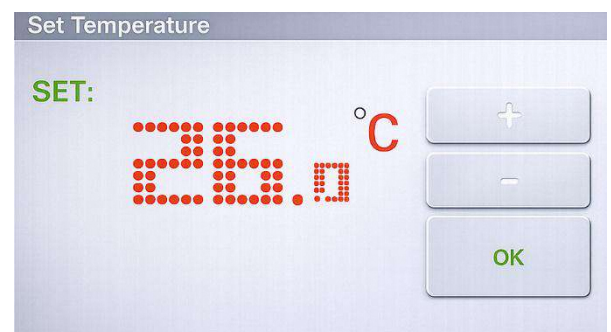
Set Temperature Adjustment

The set temperature can be adjusted directly via the touch interface. By tapping the SET value on the home screen, the adjustment screen is displayed.

- Tap **SET temperature** to open the adjustment screen
- Use **+ / - buttons** to increase or decrease the desired value
- Tap **OK** to confirm and return to the home screen

Note: Set temperature adjustment is disabled in Fan mode.

The adjacent screen shows the set temperature adjustment interface.



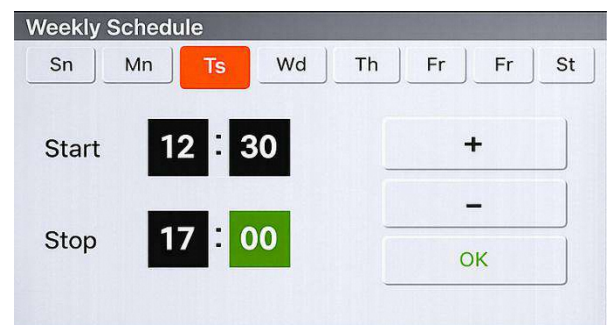
Weekly Program

The weekly program allows users to define operating schedules for each day of the week. The function can be accessed via the settings menu.

- Access **Weekly Program** via the **Settings** Menu
- Select the desired day (active day is highlighted by red)
- Tap hour or minute fields next to **Start / Stop** to select the value
- Use **+ / - buttons** to adjust the time
- Tap **OK** to save and exit

Note: If the start time is later than the stop time, the device remains inactive for that day.

If the start and stop times are equal, the weekly program is not activated.



TCP Series

Control Panels

20260415R1

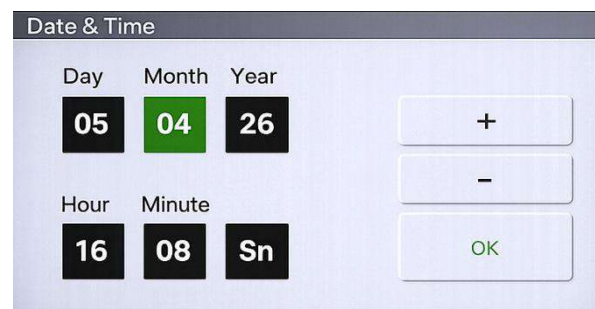
Technical Catalogue

Date & Time Settings

The date and time can be configured via the touch interface. Each parameter can be selected and adjusted individually.

- Tap the desired **Day, Month, Year, Hour, or Minute** field
- The selected field is highlighted in green
- Use **+ / -** buttons to adjust the value
- Tap **OK** to save and exit

The adjacent screen shows the date and time adjustment interface.

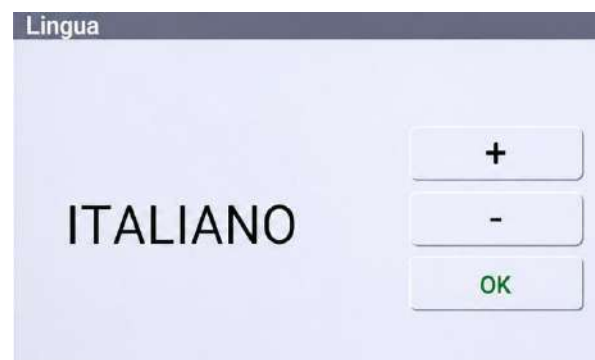


Language Selection

The interface language can be easily selected via the touch interface.

- Use **+ / -** buttons to scroll through available languages
- Select the desired language
- Tap **OK** to confirm and exit

Available languages include English, Turkish, Italian, and German.

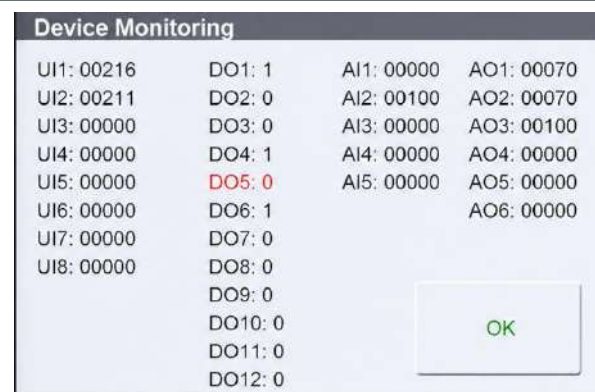


Device Monitor

The device monitor screen provides real-time visibility of system inputs and outputs, enabling advanced diagnostics and system analysis.

- Displays **digital inputs (DI)** and **digital outputs (DO)**
- Shows **analog input (AI)** and **analog output (AO)** values
- Provides real-time system data for monitoring
- Supports troubleshooting and commissioning processes

The adjacent screen shows real-time system parameters and I/O statuses.



Climate Settings

The Climate Settings menu provides access to advanced environmental control parameters. Depending on the connected controller configuration, users can adjust temperature, humidity, and CO₂ setpoints directly via the touch interface.

- Temperature setpoint adjustment
- Humidity setpoint adjustment (if supported)
- CO₂ setpoint adjustment (if supported)
- Real-time climate parameter monitoring

Available functions may vary depending on the connected HVAC controller.

TCP Series

Control Panels

20260415R1

Technical Catalogue

Service Menu

The Service Menu provides access to advanced installer and commissioning settings. Authorized personnel can configure controller-related functions and system parameters directly via the touch interface.

- When the device is in **OFF mode**, touch and hold the screen for approximately **3 seconds**
- The password screen will appear
- Use **+ / - / OK** buttons to enter the password
- Enter password **58** to access the Service Menu

Available Service Functions

- Parameter Set
- Modbus Settings
- Control Temperature
- Limit Settings
- Fan Stage
- Fan Level
- Damper Settings
- Rotary Settings
- Error Device Stop
- Input / Output Set



Parameter Configuration

Tap **Parameter Set** in the Service Menu to access controller-related configuration parameters. Available parameters may vary depending on the connected HVAC controller.

Other service functions can be accessed in the same way via the **Service Menu interface**.

Use the **Exit** button to leave the Service Menu.

For detailed parameter descriptions and parameter tables, refer to the documentation of the connected controller.

For Example: If the TCP.3043 is connected to a Havkon M1002XS controller, refer to the M1002.XS technical documentation for the related parameter descriptions and parameter tables.

The adjacent screen shows an example of the Parameter Set interface.



⚠ Service Warning

- Service menu parameters should only be modified by qualified personnel.
- Incorrect settings may affect system operation and device performance.

TCP Series

Control Panels

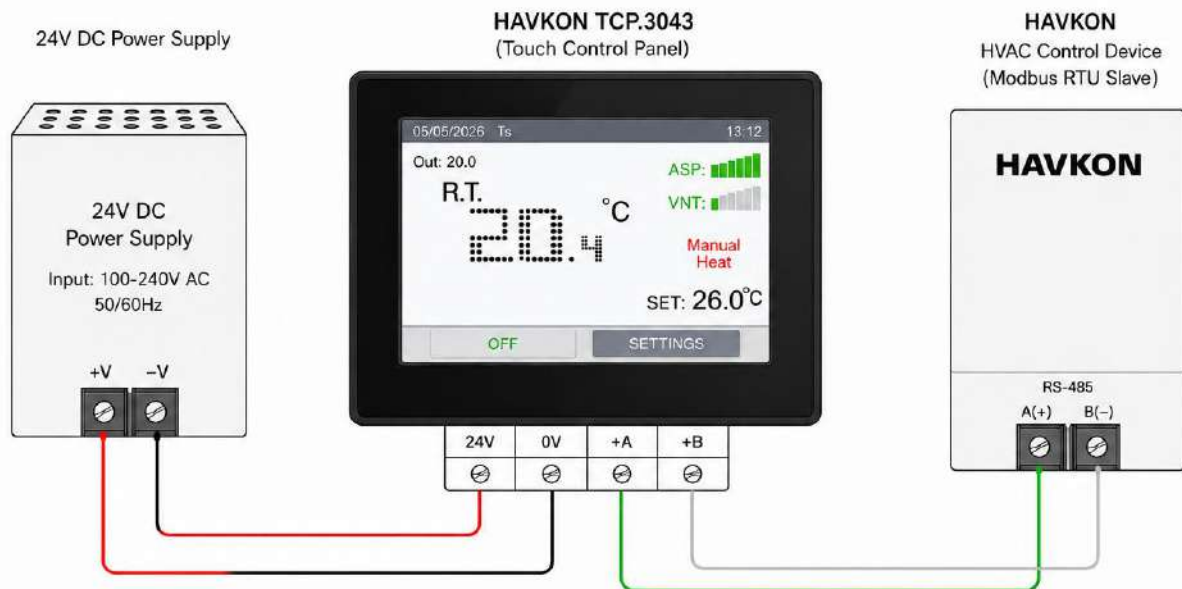
20260415R1

Technical Catalogue

Wiring Diagram

TCP.3043 CONNECTION DIAGRAM

24V DC POWER SUPPLY AND MODBUS RTU (RS-485) COMMUNICATION



NOTES:

- Use a 24V DC power supply to power the TCP.3043 panel.
- Modbus RTU communication is carried out over RS-485 (+A, +B) lines.
- Do not use GND connection.

- 24V DC (+)
- 24V DC (0V)
- RS-485 Data A (+)
- RS-485 Data B (-)

RS-485 WIRING GUIDE

- A(+) : Positive (Data A)
- B(-) : Negative (Data B)

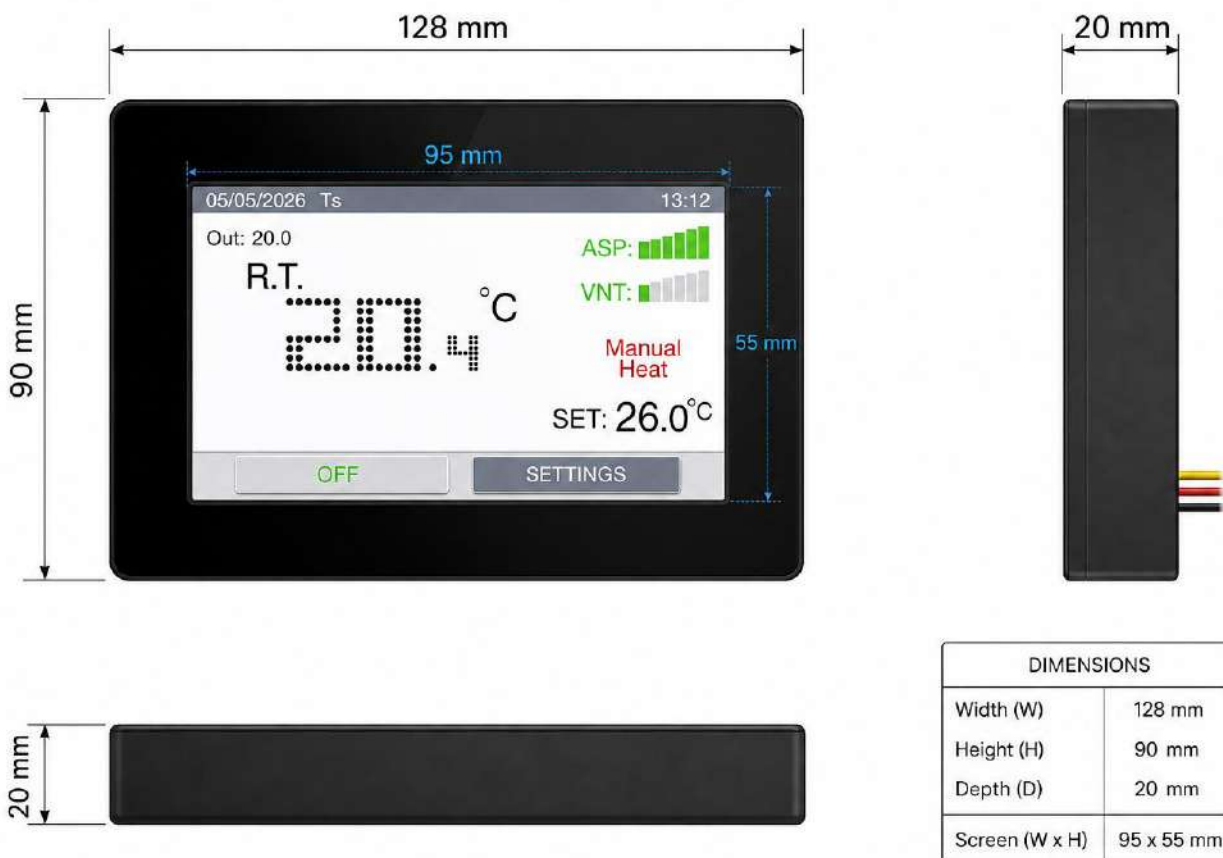
TCP Series

Control Panels

20260415R1

Technical Catalogue

Dimensions



Weight: 175 g.