TDS12028xx AURUS-6 TEMP - with 6 buttons + OLED +T/H/VOC

The AURUS-6 TEMP is a solid glass panel with six capacitive sense buttons and a small OLED display. It has built-in sensors for temperature, humidity, VOC (air quality) and an infrared receiver for remote control. It is available in four sustainable ceramic colours.

Thanks to all the built-in sensors this panel is specifically suitable where the indoor decoration level is high and no disturbing wall elements are allowed. All sensor parameters can be viewed on the built-in OLED display and used for room comfort and air quality control. However, all buttons are open for custom functionalities if you prefer.

Remark: Depending on the integrated installation, some HVAC features may not be available on your particular touch panel.

APPLICATION

AUTOBUS-compatible touch panel with OLED and sensors

CHARACTERISTICS

General

- Solid safety-glass front plate, ceramic background printed and thermally hardened.
- Six capacitive control buttons.
- One hidden button (centre-top) for showing the sensor information T° (°C), Humidity (rel.%) and VOC air quality index + glass 'CLEAN' function when long pressed.
- Small graphic OLED display for room temperature control.
- Built-in buzzer for acoustic feedback and alarm.
- Built-in infrared receiver for remote control (TDS12503).
- Built-in temperature sensor for room temperature control.
- The built-in humidity sensor (% relative humidity) can be used for simple monitoring and/or maintaining a comfortable and healthy indoor environment when a ventilation or humidifying system is integrated.
- The built-in VOC (Volatile Organic Compounds) sensor is used for air quality monitoring and ventilation control. The VOC level is displayed as an index between 1 and 500%. 100% is normal good air quality. See more information details below about this index.
When air quality decreases, the TELETASK system can activate and speed control the integrated ventilation system. See also the TELETASK Whitepaper on VOC: www.teletask.be website in the "Downloads/Leaflet" chapter.

Order numbers

TDS12028WH white
TDS12028BL black
TDS12028AU gold
TDS12028LG silver-grey

Cleaning

To temporarily disable the touch buttons, press long in the centre of the upper screen part (hidden capacitive button). Use only dry microfiber cloth. Never use liquids or solvents!

SETTINGS

Configuration

Via PROSOFT Suite (V4.0.2 or higher).

AUTOBUS address

Via two rotary switches "Tens" & "units".

Jumper

Terminating resistor (supplied with the central unit). Used when the interface is at the physical end of the AUTOBUS cable.

INSTALLATION

Standard mounting

To be mounted (vertically only) with the included wall bracket in about any standard single wall box.

To remove the AURUS-6 TEMP after installation, place a flat-head screwdriver in the provided slot at the back of the housing. A standard flat-head screwdriver of 5x100mm (3/16x4in.) is recommended. See installation drawing below.

Flush mounting

Use the Flush mounting box TDS90030 for flat mounting. For hollow walls, this has to be combined with frame TDS90031.
Remark: Normal operation of the temperature, humidity and VOC sensors may be disturbed when flush mounting.

On-wall mounting

Use the TDS90035 on-wall box in case of concrete, marble, … walls, if the standard in-wall solution is not possible.

Sealed on-wall box

TDS90037 is to be used as a preventive action to discourage unauthorized use of the touch panel and to protect against dust, waterdrops, water sprays, etc….
Remark: The operation of the built-in temperature, humidity and VOC sensors will be disturbed.

Supply Voltage

12V (supplied via the AUTOBUS cable – must be > 9V).

CONNECTIONS

AUTOBUS

AUTOBUS connector set supplied with this unit.

POWER CONSUMPTION

AUTOBUS

Max. 52 mA

DIMENSIONS

90 W x 140 H x 11 D (mm)

NET | GROSS WEIGHT

0,17 kg / 0,35 kg

PACKAGING CONTENT

TDS12028xx + AUTOBUS connection set + wall bracket

ENVIRONMENTAL CONDITIONS

Storage (with no condensation or icing)

Temperature: -20°C to +65°C max.
Relative humidity: 5% to 85% max.

Operation (with no condensation or icing)

Temperature: 0°C to +50°C max.
Relative humidity: 5% to 80% max.

IP PROTECTION RATE

IP20

VOC INDEX

The TELETASK VOC sensor uses a unique approach to quantify Volatile Organic Compounds (VOCs) using a VOC Index. The VOC Index serves as the TELETASK standard output for VOC measurement.

How the VOC Index works:
The TELETASK Gas Index Algorithm processes the raw signal from the built-in sensor on the AURUS-6 microcontroller.
The VOC Index reflects the current VOC status relative to the sensor's recent history.
It mimics the human nose's perception of odours by using a moving average over the past 24 hours as an offset (similar to how our nose uses external air composition as a baseline when entering a room).
In addition, the TELETASK VOC Index is also sensitive to odourless VOCs and adapts its gain based on past VOC events. It quantifies different VOC conditions on a limited scale, ranging from 1 to 500.

Interpreting the VOC Index:
A VOC Index above 100 indicates more VOCs compared to the average (e.g., due to cooking, cleaning, or breathing).
A VOC Index below 100 suggests fewer VOCs than the average (e.g. from fresh air or air purifiers).
TELETASK recommends using fixed mappings of the VOC Index to trigger specific actions.
E.g. activating the exhaust fan or an air purifier or the fan of your heat-recovery system, when the VOC Index exceeds 150.

Why is the VOC Index useful?
It works in any environment, regardless of varying VOC backgrounds.
The gain adaptation helps detect VOC events even when the sensor is less sensitive.
By understanding VOC levels through the VOC Index, we can take informed actions to improve indoor air quality.

ADVISED VOC INDEX ACTIONS

<100	**OFF**
>150	
>250	
>350	
>450	

SCHEMATIC DRAWING

Installation manual EN

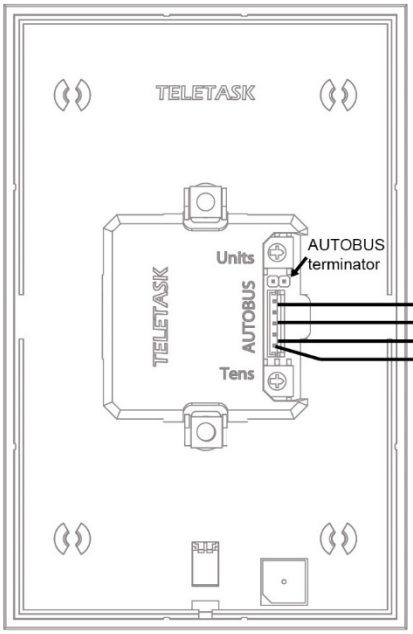
https://teletask.be/media/3142/tds12022-install_en.pdf

Installation manual NL

https://teletask.be/media/3143/tds12022-install_nl.pdf

User manual EN_NL_FR

https://teletask.be/media/3795/user-manual-aurus-6-temp_tds12028.pdf



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