



### TDS12027xx **AURUS-6 Touch panel with 6 buttons T/H/VOC**

The AURUS-6 is a solid glass capacitive touch panel with six buttons with built-in sensors for temperature, humidity, VOC (air quality) and an infrared receiver for use with a TELETASK remote control (TDS12503).

The upper four buttons as well as the lower two buttons can be freely configured.

This exclusive panel is available in four sustainable ceramic colours. Thanks to all built-in sensors this panel is specifically suitable where the indoor decoration and the building technological level are high and a minimum of disturbing wall elements is allowed.

Alternatively, there is also the AURUS-6 TEMP (ref TDS12028xx) which has an additional small OLED display to do HVAC control and show the sensor levels.

#### APPLICATION

AUTOBUS-compatible touch panel for general control.

#### CHARACTERISTICS

##### General

- Solid safety-glass front plate, ceramic background printed and thermally hardened.
- Six capacitive control buttons.
- One hidden button (centre-top) glass 'CLEAN' function when long pressed.
- 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 index can be viewed in the ATMOS mobile app, and on the PENTUS and OPUS touch screens 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 index increases and the TELETASK system can activate a fan or ventilation system. See also below for more VOC info and download the TELETASK Whitepaper on VOC: [www.teletask.be](http://www.teletask.be) website in the "Downloads/Leaflet" chapter.

##### Order numbers

TDS12027WH white  
TDS12027BL black  
TDS12027AU gold  
TDS12027LG 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. No 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). Use it 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 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 the 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. Important remark: Normal operation of the temperature, humidity and VOC sensors may be disturbed when flush mounted.

##### 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 can be used as a preventive action to discourage unauthorized use of the touch panel and to protect against dust, waterdrops, water sprays, etc....

Important 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

TDS12027xx + AUTOBUS connection set + AURUS 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?:

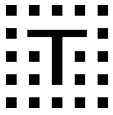
It works in any environment, regardless of varying VOC backgrounds.

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**

