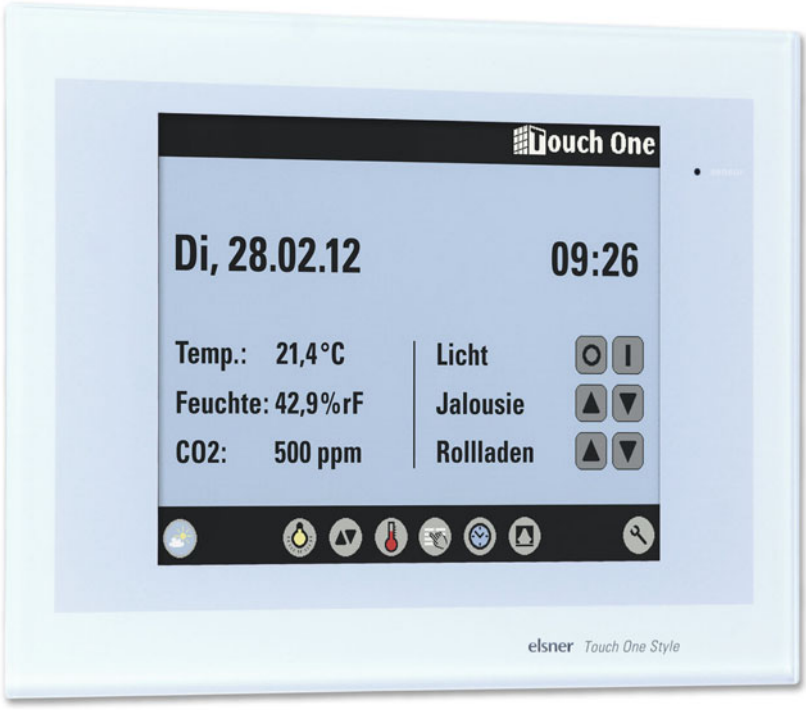
KNX EN

KNX Touch One Style

Technical specifications and installation instructions



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1. Field of application

The **Room Controller KNX Touch One Style** enables control of the KNX building technology for one room by means of a touch-sensitive display screen. The unit provides integrated control functions which can also be directly set on the display (automatic). Basic settings are made by the installer in the ETS.

The **KNX Touch OneStyle** with integrated indoor sensor (temperature, air humidity) includes an internal automated operation function for shades (sun/privacy shades) and room climate control (heating, cooling, ventilation), internal light control as well as bus functions for time and scene control. 4 binary inputs enable the connection of conventional buttons, switches and window contacts.

Eight universal pages with up to eight functions per page can be created to ensure the orderly operation and display of the function and object assignments.

The Remo 8 eight-channel wireless remote control can be used with the **KNX Touch OneStyle** for remote control of the drives.

Functions

- Internal automatic shade controls (protection from the sun/privacy)
- Room climate control (heating, cooling, ventilation)
- Internal lighting control
- Integrated interior sensors (temperature, air humidity)
- Bus functions for time and scene control
- Universal menu to display and operate the function and object assignments

Configuration is carried out with the KNX software ETS. The **software files** (VD format), data sheet and user's manual is available for download from Elsner Elektronik at **www.elsner-elektronik.de** in the "Service" menu area.

1.1. Scope of delivery

- Central control and operation unit with colour touch-display screen, 5.7 inch
  Integrated interior sensors (temperature, air humidity) and
  4 binary inputs (e.g. for buttons)
- Data sheet

Accessories (not included in the scope of delivery):

- Radio remote control Remo 8

1.2. Technical Data

Housing	Glass, plastic
Colour	• White/grey • Dark grey/black, reflecitve coating
Assembly	Flush/cavity wall
Protection Class	IP 20

Dimensions	Display front approx. 181 × 131 (W × H, mm), mounting depth approx. 8 mm, concealed box approx. 172 × 122 × 81 (W × H × D, mm)
Weight	approx. 765 g
Ambient temperature	Operational 0 to +45°C, Storage -30 to +70°C, Avoid condensation
Auxiliary supply	12...40 V DC / 14...28 V AC Residual ripple 10 %
Auxiliary current at 100% display lighting	300 mA at 12 V DC 230 mA at 14 V AC 130 mA at 24 V DC 110 mA at 28 V AC 80 mA at 40 V DC
Auxiliary current at 0% display lighting	120 mA at 12 V DC 85 mA at 14 V AC 55 mA at 24 V DC 45 mA at 28 V AC 35 mA at 40 V DC
Power consumption	For 100 % display lighting: max. 3.6 Watt For 0 % display lighting: max. 1.5 Watt
Bus current	max. 10 mA
Data output	KNX +/- Bus connector terminal
BCU type	TP UART
PEI type	0
Group addresses	max. 1024
Assignments	max. 1024
Communications objects	447 (Number 1 ... 532)
Temperature measurement range	-40...+100°C
Resolution (temperature)	0.1°C
Accuracy (temperature)	± 1.0°C from +5°C to +45°C
Humidity measurement range	0 ... 100 %
Resolution (humidity)	0,1 % 0 % to 20 % = ± 5 % rH 20 % to 80 % = ± 3 % rH 80 % to 100 % = ± 5 % rH
Drift (humidity)	± 0.5 % rH per year in normal atmosphere

* Concerning the **accuracy** of the measurement, please not chapter
📖 Installation location, page 4
Please also take note that the displayed temperature value will be too high temporarily after a **power breakdown**.

The following standards have been considered for the evaluation of the product in terms of electro magnetic compatibility:
Transient emissions:
- EN 60730-1:2000 Section EMV (23, 26, H23, H26) (threshold category: B)
- EN 50090-2-2:1996-11 + A1:2002-01 (threshold category: B)

- EN 61000-6-3:2001 (threshold category: B)

Interference resistance:

- EN 60730-1:2000 Section EMV (23, 26, H23, H26)
- EN 50090-2-2:1996-11 + A1:2002-01
- EN 61000-6-1:2004

The product has been tested for the above mentioned standards by an accredited EMV laboratory.

2. Installation

2.1. Notes on installation

Installation, inspection, commissioning and troubleshooting of the device must only be carried out by a competent electrician.

Disconnect all lines to be assembled, and take safety precautions against accidental switch-on.

The device is exclusively intended for appropriate use. With each inappropriate change or non-observance of the instructions for use, any warranty or guarantee claim will be void.

After unpacking the device, check immediately for any mechanical damages. In case of transport damage, this must immediately notified to the supplier.

If damaged, the device must not be put into operation.

If an operation without risk may supposedly not be guaranteed, the device must be put out of operation and be secured against accidental operation.

The device must only be operated as stationary system, i.e. only in a fitted state and after completion of all installation and start-up works, and only in the environment intended for this purpose.

Elsner Elektronik does not assume any liability for changes in standards after publication of this instruction manual.

2.2. Installation location

The device must only be installed and used in dry, interior spaces. Avoid condensation.

The device is to be installed flush to the wall surface. When selecting an installation location, please ensure that the measurement results of the integrated temperature/

humidity sensor are affected as little as possible by external influences. Possible sources of interference include:

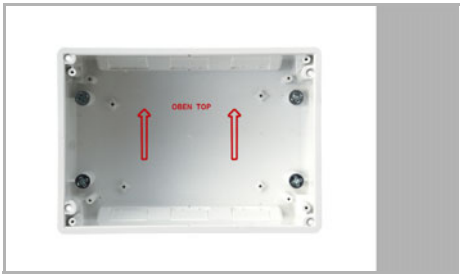
- Direct sunlight
- Drafts from windows and doors
- Draft from ducts which lead from other rooms to the concealed box
- Warming or cooling of the building structure on which the device is mounted, e.g. due to sunlight, heating or cold water pipes
- Connection lines which lead from warmer or colder areas to the device

You can correct temperature and humidity variations from such sources of interference on the ETS in order to obtain the specified sensor accuracy (temperature offset).

Cut-out dimensions for concealed box:
W = 166 mm +1 -0 | H = 116 mm +1 -0 | D = 80 mm

2.3. Preparing for installation

The display unit is held by magnets. Remove the front part from the concealed box.



Place the concealed box in the wall so that the arrows point upwards.

2.3.1. Wall-fitting

For fitting, screw the cover (board) on to the concealed box with the enclosed screws.

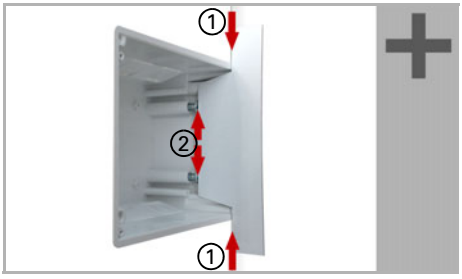
2.3.2. Cavity wall fitting

Clamp the concealed box to the wall with the four enclosed screws.

Upon delivery, the pouch containing the assembly screws can be found in the control unit's concealed box.

2.4. Assembling the operating unit

During electrical installation, please introduce all connection cables into the concealed box through the lower or upper side wall.



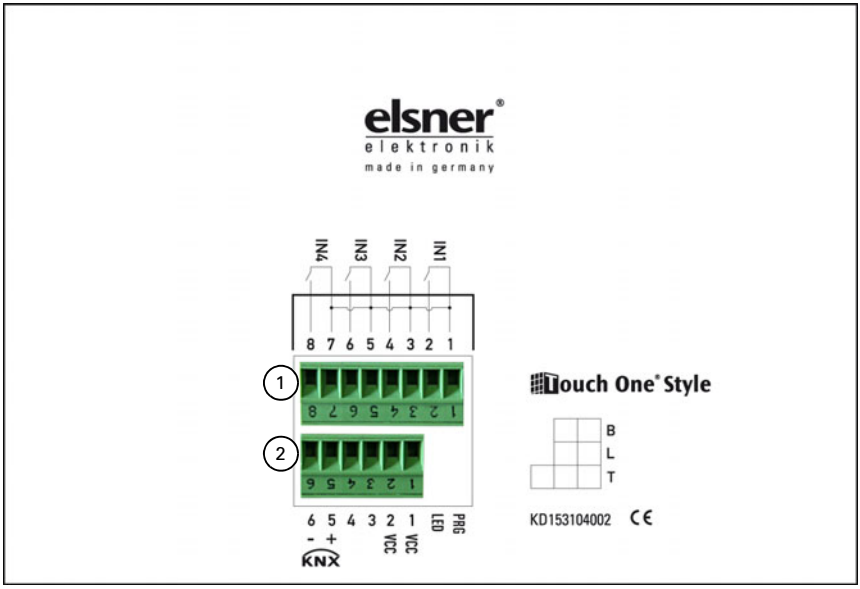
Adjust the screws of the magnetic mounting with the enclosed template. Each of the four screws must be adjusted individially in height.

When the edge of the template rests on the wall surface (1), the template must rest on the mounting screws as well (2).

By adjusting the mounting screws, the display unit will rest flat on the wall later and be held by the magnets safely.

Connect the cables to the display and place the display unit on the concealed box. The magnets must be attracted by the mounting screws considerably and the display unit must rest tightly on the concealed box.

2.5. Assigning connector terminals



Plug 1:
Terminal 1, 2: Button interface 1
Terminal 3, 4: Button interface 2
Terminal 5, 6: Button interface 3
Terminal 7, 8: Button interface 4

Plug 2:
Terminal 1, 2:
VCC (Auxiliary voltage AC/DC)
Terminal 5: KNX +
Terminal 6: KNX -

2.6. Addressing the unit

The physical address is assigned using the display screen menu **Settings > Phys. Address**. Press the buttons:

The **Physical Address** menu displays the current address and the status of the programming LED (the address is 15.15.250 on delivery).

Press the Programming button, in order to address the device to the bus.

2.7. Maintenance and care

Finger marks on the touch screen are best removed with a damp cloth or a microfiber cloth. You can wipe the buttons without activating them.
Do not use abrasives / detergents or aggressive cleaners for cleaning.

If there is a power outage, the data you have entered will be saved for around 10 years. No battery is required for this.