# KNX Touch One Style

**Technical specifications and installation instructions**

Item number 70197

# 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.

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

### *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
- Bus functions: Actuating variable comparators, multi-function modules (computers), AND/OR logic

Configuration is made using the KNX software ETS. The **product file** can be downloaded from the Elsner Elektronik website on **www.elsner-elektronik.de** in the "Service" menu.

## 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 |
| 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<br>Residual ripple 10 % |
| Auxiliary current at 100% display lighting | 300 mA at 12 V DC          230 mA at 14 V AC<br>130 mA at 24 V DC          110 mA at 28 V AC<br> 80 mA at 40 V DC |
| Auxiliary current at 0% display lighting | 120 mA at 12 V DC           85 mA at 14 V AC<br> 55 mA at 24 V DC           45 mA at 28 V AC<br> 35 mA at 40 V DC |
| Power consumption | For 100 % display lighting: max. 3.6 Watt<br>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* | 0...+45°C |
| Resolution (temperature) | 0.1°C |
| Humidity measurement range | 0...100 % RH |
| Resolution (humidity) | 0,1 % RH |
| Accuracy (humidity) | ± 7.5% RH at  0... 10% RH<br>± 4.5% RH at 10... 90% RH<br>± 7.5% RH at 90...100% RH |

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

The product conforms with the provisions of EU directives.

# 2. Installation

## 2.1. Installation notes

Installation, testing, operational start-up and troubleshooting should only be performed by an electrician.

**CAUTION!**
**Live voltage!**
There are unprotected live components inside the device.
- National legal regulations are to be followed.
- Ensure that all lines to be assembled are free of voltage and take precautions against accidental switching on.
- Do not use the device if it is damaged.
- Take the device or system out of service and secure it against unintentional use, if it can be assumed, that risk-free operation is no longer guaranteed.

The device is only to be used for its intended purpose. Any improper modification or failure to follow the operating instructions voids any and all warranty and guarantee claims.

After unpacking the device, check it immediately for possible mechanical damage. If it has been damaged in transport, inform the supplier immediately.

The device may only be used as a fixed-site installation; that means only when assembled and after conclusion of all installation and operational start-up tasks and only in the surroundings designated for it.

Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

## 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 (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.
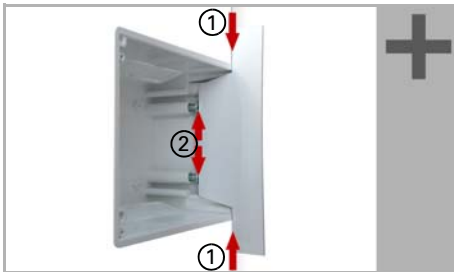
## 2.3.2. Cavity wall fitting

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
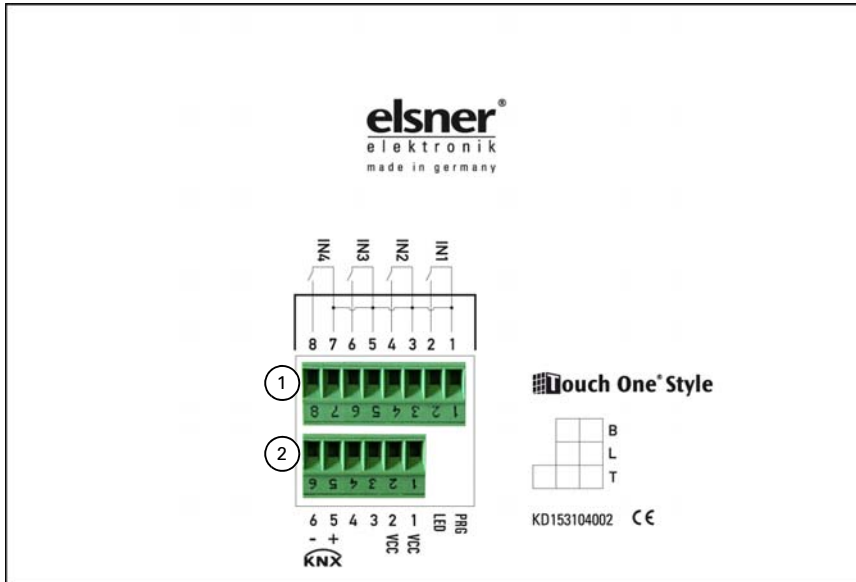


*Plug 1:*
*Terminal 1, 2: Button interface 1*
*Terminal 3, 4: Button interface 2*
*Terminal 5, 6: Button interface 3*
*Terminal 7, 8: Button interface 4*

*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.