



Operating instructions for Dew Point Touch 600/610 and Universal Touch 650/660

We take nature to our aid and dehumidify with dry air from outside in a very cost-effective way than the known, expensive remedial measures, which are mostly without long-term success. An automatic ventilation system provides a permanent solution here. This should be designed as cross ventilation with at least two (in larger basements several) fans with high air performance. We also have the fitting fans for our ventilation systems in our range.

Ports

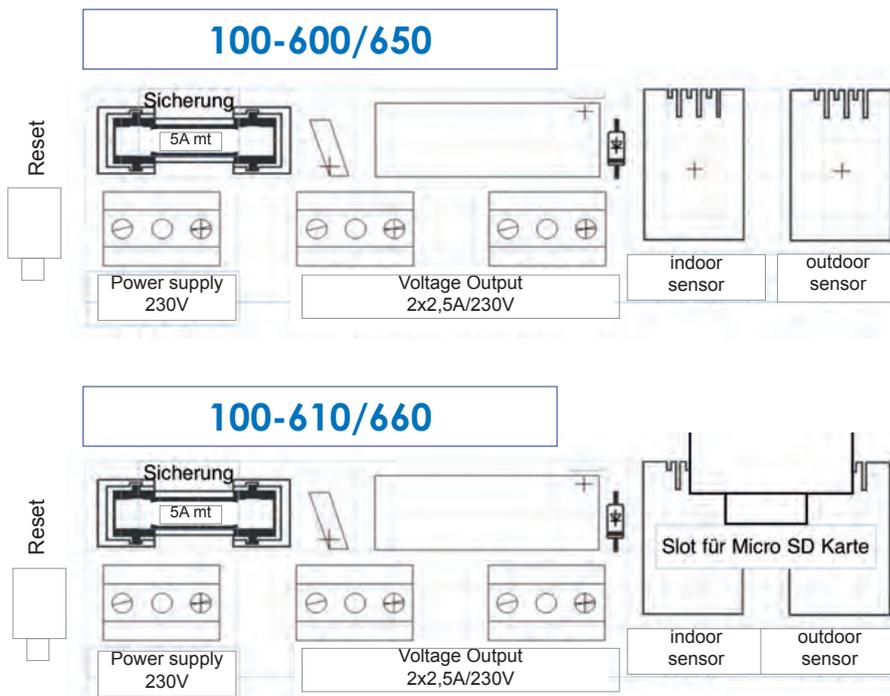
The port assignments for the ventilation controllers 100-600 / 650 and 100-610 / 660 including data storage are shown on the right.

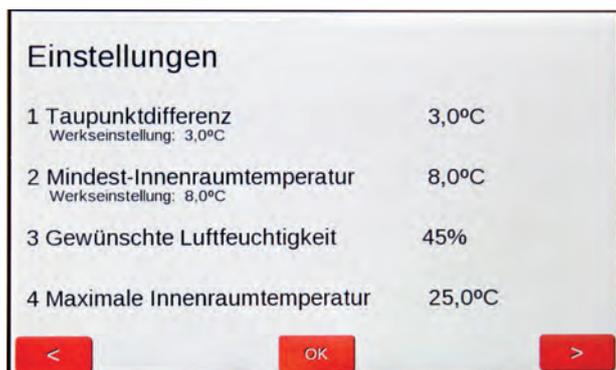
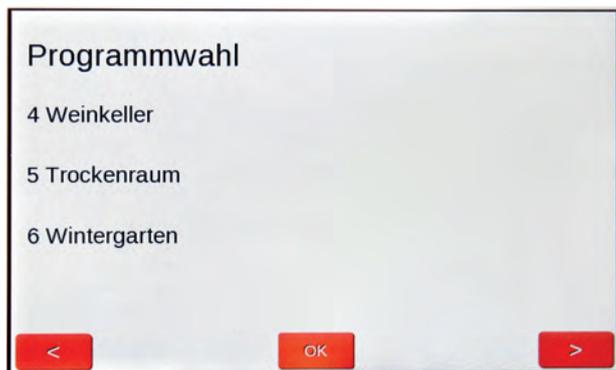
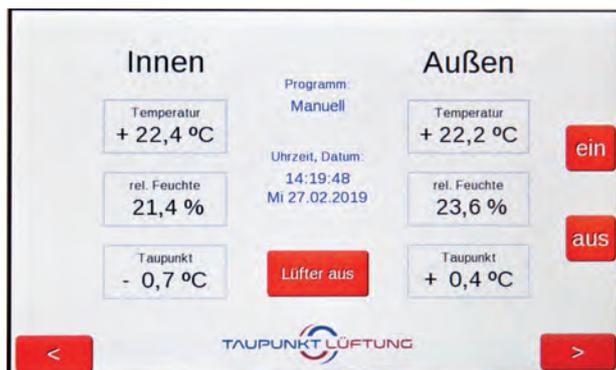
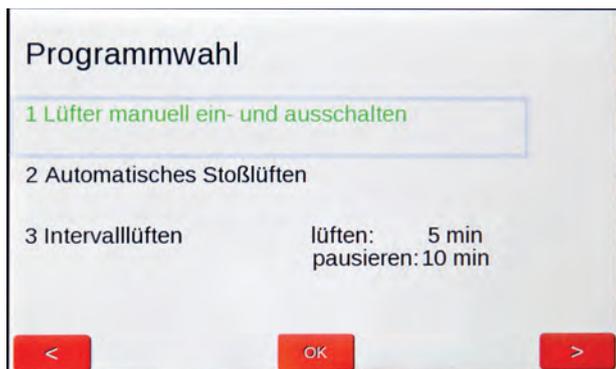
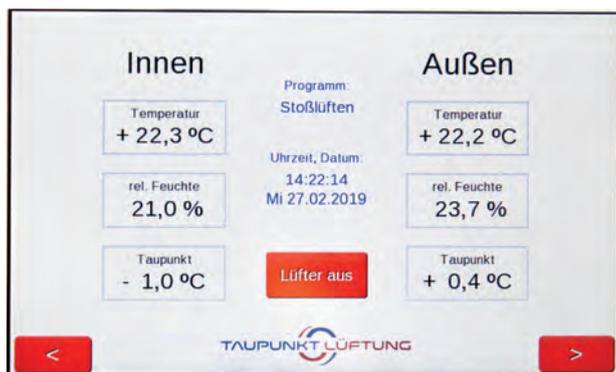
The sensors are connected to the RJ11 sockets using the supplied cable. Please pay attention to the assignment of the indoor and outdoor sensors.

The lift clamps are used to connect the fans. Supply voltage 230V AC. 5A fuse.

Please note with type 100-610/660:

The RESET must be carried out when a Micro SD card / SDHC card is inserted. The RESET button is located on the left in the control box.





Keylock

To access the programs and settings, please press the fan button (green or red) for about 5 seconds until two red fields with an arrow appear at the bottom of the display. The key lock is now deactivated and you get to the menu settings. The first page shows programs 1 to 3.

Program 1: Fan testing

Testing the fans without measurement. 230 volts are put on the outlet. The red ON and OFF buttons are visible on the start screen (only with sensors connected) to switch the fans on and off manually for the testing.

Program 2: Automatic shock ventilation (Dehumidification)

Always start the dehumidification with program 2. To dehumidify cellars, an automatic shock ventilation is carried out here. The cellar air is exchanged relatively quickly with dry outside air through the cross ventilation, without the walls cooling down. The control then stops (at dew point <math>< 1\text{ °C}</math>) and waits again for the set ventilation conditions. The control is also suitable for fans with heat recovery (WRG). **The interval programs for maintenance ventilation are not set until the dehumidification has been carried out successfully.**

Program 3 : Interval ventilation

The ventilation control ventilates at your interval settings, if the climatic conditions are provided (dew point outside is lower than inside, depending on the dew point difference). The active time can be set between 5 and 10 minutes. The passive time can be set between 10 and 90 minutes. Example: If a break of 10 minutes is set, Pause: 9 minutes is displayed in the middle of the start screen. The 10 minutes is now counted down internally. After the 10 minutes have elapsed, ventilation takes place under optimal ventilation conditions (= dew point difference reached).

Program 4-6 (only with 650/660)

Wine cellar setting: dew point difference 5 °C, target relative humidity 65%, target temperature 12 - 14 °C

Drying room setting: dew point difference 5 °C, desired relative humidity 65%

Conservatory setting: dew point difference 5 °C, 20 °C indoor temperature. The relative humidity and indoor temperature can be changed in the settings.

Setting 1: Dew point difference 3°C

The control **only** works according to the set dew point difference (absolute humidity, factory setting 3 °C). This is an empirical value to ensure dehumidification. However, you can also change the difference from 1 °C to 10 °C dew difference. If the difference is smaller (e.g. around 2), ventilation is common, but it is hardly dehumidified. Conversely, increasing the dew point difference to 9 °C will dehumidify more, but the events that match the conditions will be less common. The dew point difference can be reset on the device info page.

Setting 2:

min. indoor temperature 8°C

The lowering of the interior temperature at which the ventilation stops can be limited. The selection can be made between 5 ° C and 30 ° C in 1 degree steps (factory setting: 8 ° C). To effectively dehumidify a cellar, you need a temperature difference between inside and outside.

At a temperature difference of 5 ° C, dehumidification becomes more effective and gets more common. In winter you don't have to be afraid that the air in the basement could get too cold and could freeze (the minimum indoor temperature is taken into account). A good mediocrity is the factory setting of 8 ° C. If you now set the interior temperature higher, the events in which effective dehumidification can take place quickly become less common.

Device information

In the device information, the type of port of the sensors inside and outside is shown in the top two lines (e.g. by cable / radio). The third line shows whether the factory settings have been changed (if yes, see Figure 2).

External radio sensor

If the receiver is plugged into the external radio sensor, the control automatically recognizes the radio sensor system.

SD Card (only for 610/660)

The fourth line shows whether there is an SD card in the controller (not included in the delivery). If a card is inserted, the card data size is also displayed, as well as the currently used storage space.

Clock (only for 610/660)

The time is already set. It can be changed manually (does not automatically switch to summer / winter time). To do this, press the respective fields of the date / time (appear in red). Confirm with OK or arrow keys.

Night shutdown

By means of the night shut-off, you can set the period of time during which the ventilation system should not be in operation, e.g. from 11 pm to 5 am. The ventilation stops during this time, no dehumidification takes place. If the night shut-off is active, the display is darkened.

Fan operating time

The operating hours counter totals the ventilated time of the fans in hours/minutes/seconds.

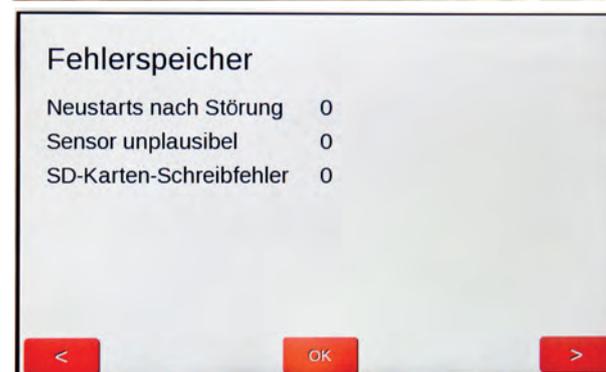
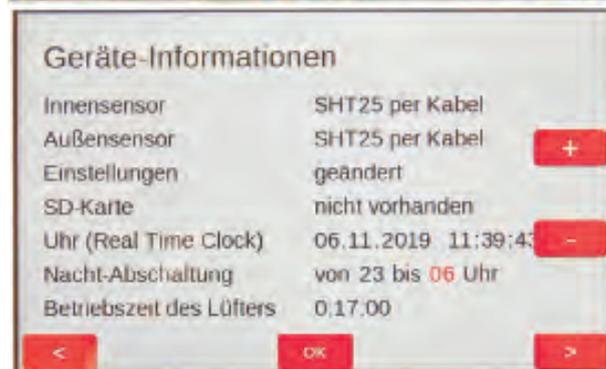
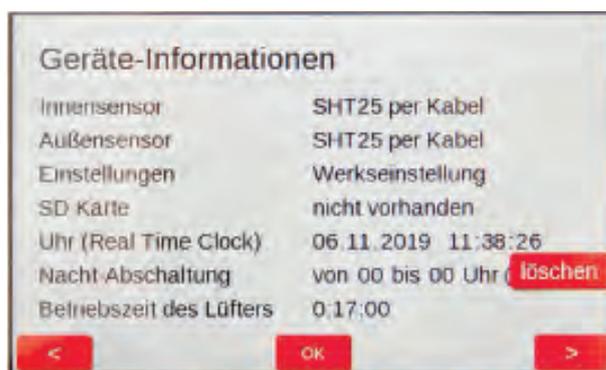
Setting 3 & 4: (only with 650/660)

Change rel. Humidity 45% & max. indoor temperature 25°C

The settings for relative air humidity and maximum indoor temperature mentioned in programs 3 and 4 can be changed in these settings.

Please note: This is the maximum interior temperature at which ventilation stops.

This setting is necessary and active in the selection of winter garden setting and wine cellar setting. With the drying room setting, the max. Indoor temperature not taken into account.



Data-link-connector

The Data-link-connector shows:

- Restart after fault
- Sensor implausible
- SD card write error

If the control is not fully functional, we ask you to tell us about the Data-link-connector at the telephone support. This suggests any errors (sensor / SD card etc.).

Data storage (only with 100-610/660)

Datum,	Zeit,	TempInnen,	FeuInnen,	TauInnen,	TempAussen,	FeuAussen,	TauAussen,	Luefter	
17/05/2018,	10:54:15	+ 22.4 C,	43.2 %,	+ 9.2 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter aus,	Fehler Innensensor
17/05/2018,	10:54:18	+ 22.4 C,	43.2 %,	+ 9.2 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter aus	
17/05/2018,	10:54:25	+ 23.5 C,	53.2 %,	+ 13.4 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter an	
17/05/2018,	10:54:54	+ 23.6 C,	44.9 %,	+ 10.9 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter an,	Fehler Innensensor
17/05/2018,	10:54:57	+ 23.6 C,	44.9 %,	+ 10.9 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter an	
17/05/2018,	10:54:58	+ 24.0 C,	48.3 %,	+ 12.4 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter aus	
17/05/2018,	10:55:00	+ 24.1 C,	48.0 %,	+ 12.4 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter an	
17/05/2018,	10:55:14	+ 24.4 C,	42.6 %,	+ 10.8 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter an,	Fehler Aussensensor
17/05/2018,	10:55:15	+ 24.4 C,	42.6 %,	+ 10.8 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter an,	Fehler Innensensor, Fehler Aussensensor
17/05/2018,	10:55:16	+ 24.4 C,	42.6 %,	+ 10.8 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter an,	Fehler Aussensensor
17/05/2018,	10:55:17	+ 24.4 C,	42.6 %,	+ 10.8 C,	+ 22.4 C,	43.6 %,	+ 9.4 C,	Luefter aus,	Fehler Aussensensor

The ventilation controllers type 100 - 610/660 is equipped with an RTC (Real Time Clock) and stores all climate data hourly on your Micro SD (up to 2 GB) / micro SDHC (up to 32 GB). All values (dew point, temperature, relative humidity) are recorded inside and outside, as well as the ventilation intervals. Sensor failures are also saved in the file (CSV can be read by Excel).

Please note: When restarting and reinserting the SD card, a RESET must be carried out beforehand. The data on the micro SD card is not deleted. The reset button is located on the far left in the control box next to the fuse (black).

Maintenance and safety instructions

If it can be assumed that safe operation is no longer possible, the device must be taken out of operation and disconnected from the power supply. The installation may only be carried out by a qualified electrician who is familiar with the associated regulations. The VDE regulations must be observed.

Warranty

(1) The warranty period is two years from delivery of the goods to commercial customers. (2) You are obliged to examine the goods immediately and with due care for quality and quantity deviations and to notify the seller in writing of obvious defects within 7 days of receipt of the goods; timely dispatch is sufficient to meet the deadline. This also applies to hidden defects ascertained later on from time of discovery. In the event of a violation of the obligation to inspect and give notice of defects, the assertion of warranty claims is excluded. (3) In the event of defects, the seller shall, at its option, grant warranty by means of rectification or replacement delivery. If the rectification of defects fails twice, you can request a reduction or withdraw from the contract. In the event of rectification, the seller does not have to bear the increased costs incurred by moving the goods to a location other than the place of performance, provided that the shipment does not correspond to the intended use of the goods.

If a defect should occur despite all the factory checks, please send the device (franked) to us. If you have any technical questions, please dial: +49 (0) 89/904 868 - 0 or fax: +49 (0) 89/904 868 - 10.

Technical details

Power supply	230V / 50Hz / 2,5W
Fan current	max. 5A, 230V
Connection type	Lift clamps
Touchscreen	5" Zoll
Resolution	0.1 Grad
Measuring range temperature	-26°C to +76°C
Accuracy	± 0,5 %
Measuring range air humidity	5% to 99%
Accuracy	± 1,8 %
Measuring range Dew point	-54°C to +75°C
Accuracy	± 1,8 %
Probe length	je 10m standard
Special length	max 50m (each sensor)
Dimensions wall housing	165 x 155 x 70mm
Dimensions sensor housing	65 x 92 x 59 cm
Operating temperature control	-20°C to 50°C
Operating temperature sensor	-20°C to 50°C
Mounting method	wall mounting
Protection class control	IP51
Protection class sensor	IP51

Technical changes and errors excepted. Feb. 2020