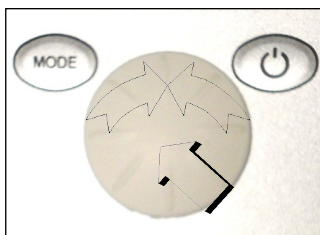


GTM II E

user and operating manual

Function of the keys



122 x 70 x 35 mm

System ON



Press the **ON/OFF** key until the display is turned on.

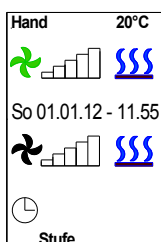
System OFF

Press the **ON/OFF** key for 2 sec. (standby).

Display OFF

When the system is in Standby, press the **ON/OFF** key until the display is turned off.

1. Hand (manual)



If the **Stufe (settings)** option is displayed in the bottom line, you can set different fan settings by turning the multifunctional rotary knob. If you press the multifunctional rotary knob, the **Heizung (heating)** option will be displayed. A heating setting from 1 – 3 can be turned on by using the multifunctional rotary knob depending on the set fan setting.

Fan settings 1 - 2	Heating settings 0 -1
Fan setting 3	Heating settings 0 - 2
Fan settings 4 - 5	Heating settings 0 - 3

Set the **Manual** operation (if required).

Press the **Mode** key (**PGM Mode** display). Select **Hand (manual)** by using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection. The **Hand (manual)** option is displayed on the top line of the display in addition to the actual temperature. Press the multifunctional rotary knob to activate manual operation.



(Only for operation with a timer)

Turn the multifunctional rotary knob to set the **setting** in the bottom pre-selection line. Press the multifunctional rotary knob to confirm. Next, turn the knob to select a fan setting and press the knob to confirm the selection. Set heating settings 1 - 3 using the same method (depending on the set fan settings, see above).

Select the timer using the multifunctional rotary knob and set the related clock symbol.

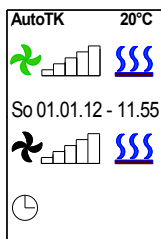
Clock symbol = timer OFF

Clock symbol orange = timer set in advance

Again press the **MODE** key to activate the selected operational mode (also see point 5).

(Default setting: **fan setting = 0**, **heating setting = 0** and symbol colour **blue**.)

2. AutoTK (automatic operation with door contact control)



Press the **Mode** key (**PGM Mode** display). Select **AutoTK** using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection. The **AutoTK** option is displayed on the top line of the display next to the actual temperature.

Next, you can set a fan setting, heating (depending on the selected fan setting, also see point 1) and/or the timer using the multifunctional rotary knob. Turn the knob to the left or right to do this and press the knob to confirm the selection. (Default setting: **fan setting 0** and **heating setting 0**.)

The integrated timer can be set in advance (also see point 5).

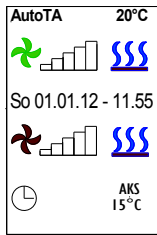
Clock symbol = timer OFF

Clock symbol orange = timer set in advance

Again press the **MODE** key to activate the selected operational mode.

The system must have been provided with a turning-off delay to prevent that the air curtain system is turned on or off every time the door is opened or closed. This **Nachlauf (turning-off delay)** can be set in the **BASIC (basic settings)** menu to 10 - 300 sec. (default setting: **turning-off delay 60 sec.**, see point 6.7).

3. **AutoTA (automatic operation with cooling protection)**



Press the **Mode** key (**PGM Mode** display). Select **AutoTA** using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection. The **AutoTA** option is displayed on the top line of the display next to the actual temperature.

You can set the temperature for the cooling protection (AKS) between 11° and 30° C by using the multifunctional rotary knob. Turn the knob to the left or right to do this until the required temperature has been reached (default setting: **fan setting = 0, heating setting = 0** and AKS temperature = **15° C**). Press the multifunctional rotary knob to confirm the selection.

The integrated timer can be set in advance (also see point 5).

Clock symbol = timer OFF

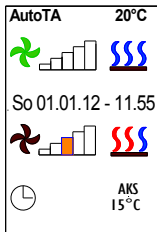
Clock symbol orange = timer set in advance

Again press the **MODE** key to activate the selected operational mode.

If the temperature drops below the set value, the system will switch to fan setting 1 and heating setting 1 (the **AKS** display will flash red).

If the system uses the timer, the cooling protection will always have priority.

3a. **AutoTA (automatic operation with cooling protection and door contact)**



(In addition to point 3.)

Press the **Mode** key (**PGM Mode** display). Select **AutoTA** using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection.

Next, you can set a fan setting (1-5) and heating by using the multifunctional rotary knob (depending on the selected fan setting, also see point 1). Turn the knob to the left or right to do this and press the knob to confirm the selection. (Default setting: **fan setting = 0, heating setting = 0** and AKS temperature = **15° C**.)

The integrated timer can be set in advance (also see point 5).

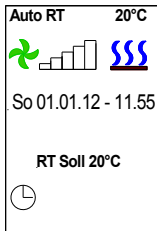
Clock symbol = timer OFF

Clock symbol orange = timer set in advance

Again press the **MODE** key to activate the selected operational mode.

The system must have been provided with a turning-off delay to prevent that the air curtain system is turned on or off every time the door is opened or closed. This **Nachlauf (turning-off delay)** can be set in the **BASIC (basic settings)** menu to 10 - 300 sec. (default setting: **turning-off delay 60 sec.**, see point 6.7).

4. **AutoRT (automatic operation with room temperature sensor)**



Press the **Mode** key (**PGM Mode** display). Select **AutoRT** using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection. The **AutoRT** option will be displayed on the top line next to the actual temperature.

Select the room temperature using the multifunctional rotary knob and press the knob to confirm the selection. Next, you can set the required room temperature (**R-Temp**). Press the multifunctional rotary knob to confirm the selection.

(Default setting: **R-Temp 20° C**.)

The integrated timer can be set in advance (also see point 5).

Clock symbol = timer OFF

Clock symbol orange = timer set in advance

Again press the **MODE** key to activate the selected operational mode.

The fan control will follow the set room temperature (preference temperature). Depending on the difference between the actual temperature and the set room temperature, the control will adjust the fan and heating setting.

5. **Timer**



Press the **Mode** key (**PGM Mode** display). Select **Timer** using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection.

If the system must be turned on at **8:10 a.m.** and turned off at **noon** every Monday, program the following:

Turn the multifunctional rotary knob to select the week day **Mo (Monday)**.

Press the rotary knob to set the **08:10 - noon** times. You can program a second turning-on and -off time in the next line. You must confirm times that have not been programmed on **Mondays** by pressing the multifunctional rotary knob.

You can program the times for the other days in the same way.

Again press the **MODE** key to activate the selected times.

Display on display

Clock symbol = timer OFF

Clock symbol orange = timer set in advance (programmed next time of the day)

Clock symbol green = timer in operation (programmed next turning-off time of the day)

6. Settings in the Basic menu (basic settings)

AutoRT	21°C
PGM Mode	
Mo 01.01.12	11:55
Language	Ger
Werkseinst.	aus
Anlauf	aus
memory	aus
Nachlauf	060s
Filterzeit	950h
Datum/Zeit	

Press the **Mode** key (**PGM Mode** display). Select **Basic** by using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection. A menu will be displayed with the different setting options.

6.1 Tag / Datum / Zeit (day/date/time)

Press the multifunctional rotary knob and turn it to select and change the related data (24:00 hour notation).

6.2 Language

Press the multifunctional rotary knob and turn it to select and change the related data. If required, you can switch from German to English (other languages will become available soon).

6.3 Werkseinstellung (default setting)

Press the multifunctional rotary knob and turn it to select and change the related data. The original data is restored.

6.4 Anlauf (turn-on time)

Press the multifunctional rotary knob and turn it to select and change the related data. After the air curtain has been switched on, the speed will switch to setting 1 during 3 seconds and, next, to setting 5 for another 3 seconds automatically. Next, the system will operate based on the set fan setting (default setting: **turn-on time off**).

6.5 Memory

Press the multifunctional rotary knob and turn it to select and change the related data. The memory function will ensure that all set values are saved if there is a power outage. (Default setting: **memory on**.)

6.6 Nachlauf (turning-off delay)

Press the multifunctional rotary knob and turn it to select and change the related data. **The turning-off delay at door contact operation** can be set between 10 and 300 sec. (Default setting: **turning-off delay 60 sec.**)

6.7 Service life of the filter

Press the multifunctional rotary knob and turn it to select and change the related data. The service life of the filter can be set between 0 - 990 hours (default setting: **950 hours**).

Again press the **MODE** key to activate the changed basic setting.

7. Error messages are displayed in orange

After the set service life has elapsed, **Filter reinigen (clean filter)** will be displayed on the display. The integrated filter must be cleaned (essential). The filter can be vacuumed using a vacuum cleaner or can be washed with a mild soap solution.

NOTE! If the filter is cleaned using water, wait until the filter has dried completely before you reinstall it.

Cancel error message

Press the **Mode** key (**PGM Mode** display). Select the **Quittierung (cancel)** option using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection.

Sensor defekt (sensor faulty) and actual temperature display 01° C
The temperature sensor is faulty, not connected or the max. cable length has been exceeded.

Sensor defekt (sensor faulty) and actual temperature display 55° C
Short-circuit in the temperature sensor.

Cancel error message

Once the fault in the temperature sensor has been resolved, the error message will be cancelled automatically and the normal operation of the air curtain system will be resumed.

8. Faults are shown in red

Frostalarm (frost protection) will be displayed when the temperature of the supplied air is lower than approximately 7° C on the optional frost protection thermostat. The fans will be turned off and the optional solenoid valve will be opened.
This function always has priority!

Cancel error message

When the freezing risk is no longer present, the error message will be cancelled automatically and the normal operation of the air curtain system will be resumed.

Motortemperatur (motor temperature) will be displayed when the temperature control is activated (fan motors). The relevant air curtain will be put out of service.
The system must be checked (contact a specialised installation company).

Cancel error message

Press the **Mode** key (**PGM Mode** display). Select the **Quittierung (cancel)** option using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection.



9. Details

At most 10 air curtain systems can be managed with one control panel with the GTM II E control. Each printed circuit board is equipped with a coding switch for this purpose. The coding reads as follows:

0 = MASTER, 1 - 9 = SLAVE.

NOTE: never use the same coding for two systems.

The error message will be generated as a collective fault in the MASTER system when a fault occurs. Only the faulty system will be put out of service in relation to **Motortemperatur (motor temperature)**.

When the system is turned on, first the slave systems must be supplied with power.

Potential-free messages



Dimensions 70 x 70 x 27 mm

Function and fault messages are available on the printed circuit board in the form of change-over switches.

If input does not follow in the programming mode (**PRG Mode**) for more than 60 seconds, the mode will be terminated automatically.

Temperature sensor

The cable must be laid separately and must be as short as possible (at most 15 m) to ensure that the sensor is influenced as little as possible by electromagnetic radiation.

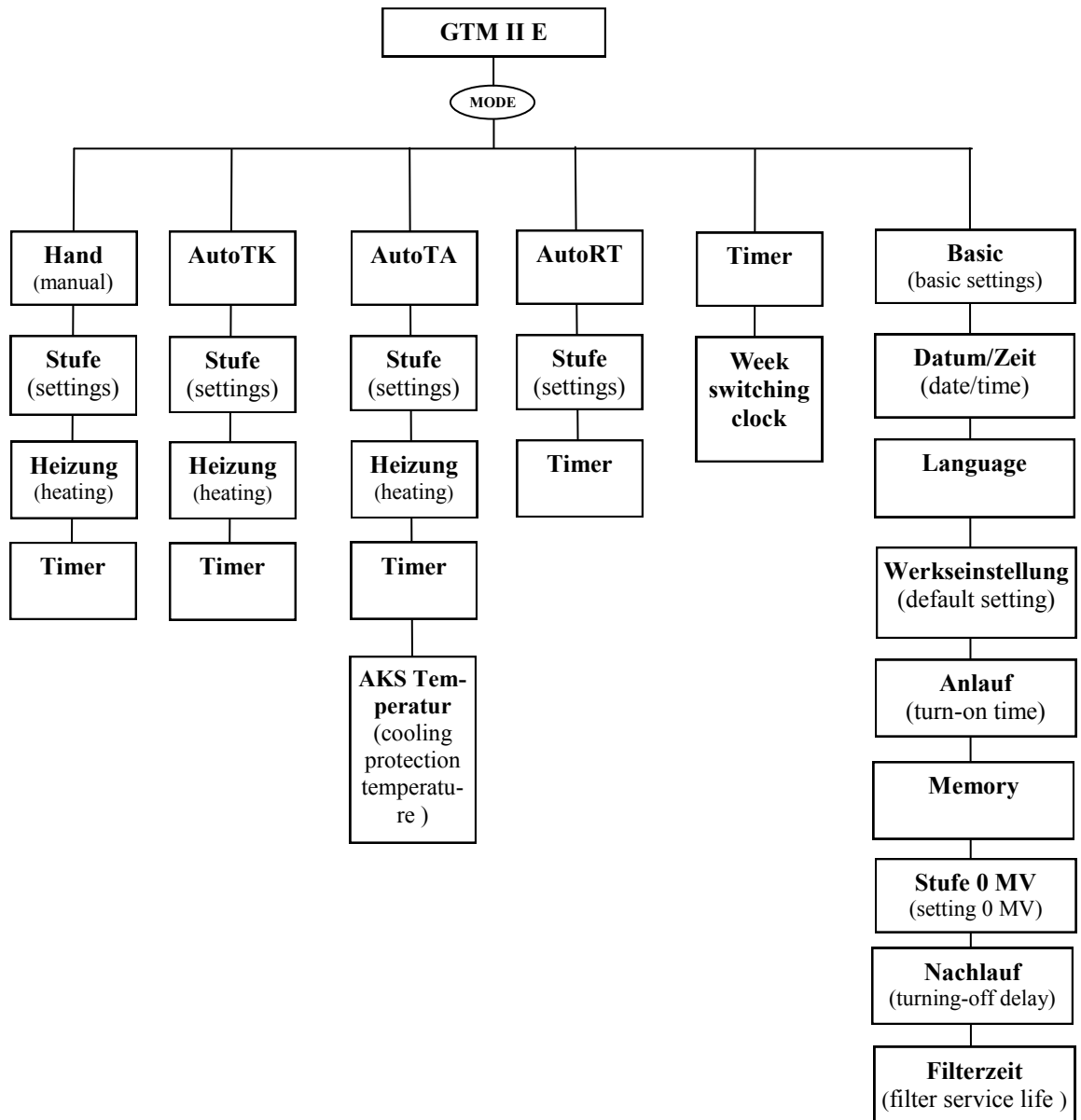
The sensor cable must be shielded in unfavourable situations or when the cable lengths are different (at most 20 m).

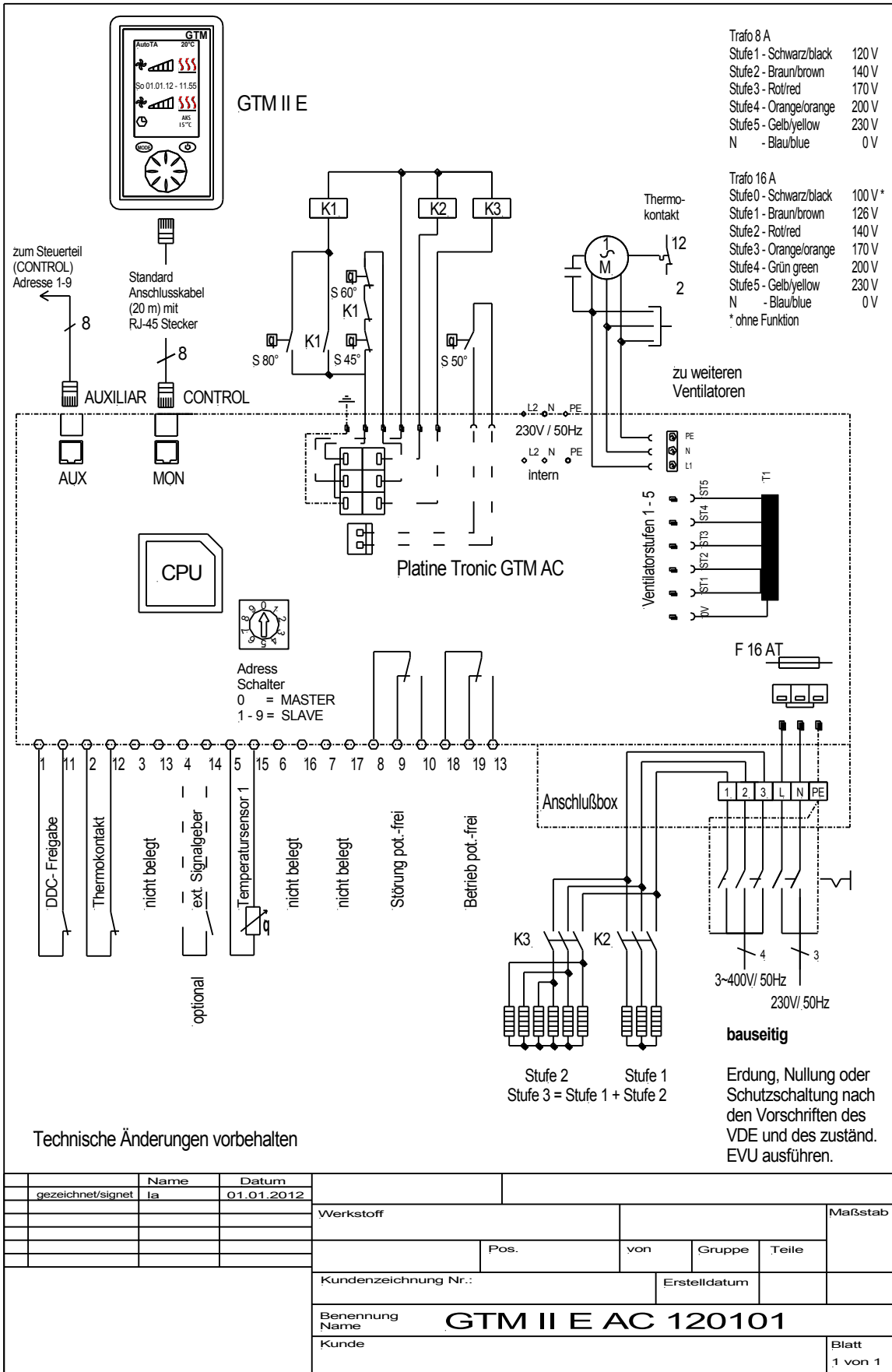
10. Troubleshooting

Error	Display	Possible causes	Solution
System is not working	Display off	No grid power supply Not turned on	Turn on the grid power supply Turn on the system
	Keine freigabe (no release)	Fault in DDC release	See point 7
	Sensor defekt (sensor faulty)	Temperature sensor is faulty Cable broken Short-circuit	Replace the sensor Replace the cable Resolve the short-circuit
Insufficient airflow speed	Motortemperatur (motor temperature) Filter service life	Fan faulty Air supply vent dirty Air supply vent dirty	Replace the fan (see point 8) Clean the air supply vent Clean the air supply vent (see point 7)
No heating		Heating is not turned on System has overheated	Turn on the heating (see point 1) Clean the air supply vent Reset
	ÜT - Ventilation (overheating - ventilation)	Air supply vent dirty	
	com error (communication error)	Error in data transfer	Reset

The air curtain system must be reset when a fault occurs. Disconnect the power supply from the whole system. Wait 10 seconds and again turn on the system (also see point 9).

11. Schedule





- Trafo 8 A
- Stufe 1 - Schwarz/black 120 V
 - Stufe 2 - Braun/brown 140 V
 - Stufe 3 - Rot/red 170 V
 - Stufe 4 - Orange/orange 200 V
 - Stufe 5 - Gelb/yellow 230 V
 - N - Blau/blue 0 V
- Trafo 16 A
- Stufe 0 - Schwarz/black 100 V*
 - Stufe 1 - Braun/brown 126 V
 - Stufe 2 - Rot/red 140 V
 - Stufe 3 - Orange/orange 170 V
 - Stufe 4 - Grün green 200 V
 - Stufe 5 - Gelb/yellow 230 V
 - N - Blau/blue 0 V
- * ohne Funktion

Adress Schalter
0 = MASTER
1 - 9 = SLAVE