

# user and operating manual

## GTM II EC UK 140801

### Function of the keys



#### System ON



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

#### System OFF

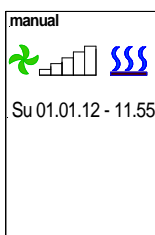
Press the **ON/OFF** key for 2 sec. (standby).

#### Display OFF

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



122 x 70 x 35 mm



### 1. Manual

If **step** is displayed in the bottom line, different fan settings can be configured (turn the multifunctional rotary knob). If you press the multifunctional rotary knob, the **heating** option will be displayed. Depending on the programming (see point 5.6, **step 0 MV**), the optional solenoid valve can be turned on or off by turning the multifunctional rotary knob.

Set the **Manual** operation if required.

Press the **Mode** key (**PGM Mode** display). Select **manual** by using the multifunctional rotary knob (the text colour will change from orange to black). Press the knob to confirm the selection. **Manual** will be displayed on the top display line. Press the **MODE** key to activate the **manual** operating mode.

(Only for operation with a timer)

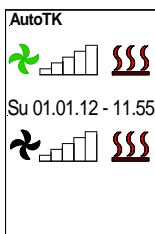
Press the **Mode** key (**PGM Mode** display). Turn the multifunctional rotary knob to display the **step** in the bottom line. Press the multifunctional rotary knob to confirm. Use the multifunctional rotary knob to select a fan setting and to confirm the required selection. The heating can be set in advance using the same method (**ON** = symbol colour **red**).

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

(Default setting: **fan step 0**, **heating OFF** 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. **AutoTK** will be displayed in the top display line.

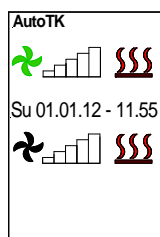
Select a ventilation setting by turning the multifunctional rotary knob to the right or left. Press the knob to confirm the selection (default setting: **fan step = 0**, **heating OFF**).

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

When the doors are opened, the ventilation setting set in advance will be activated through an optional door contact switch (external signal emitter).

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 **overrun** can be set in the **BASIC** menu to 10 - 300 sec. (default setting: **turning-off delay 60 sec.**, see point 5.7).

### 3. AutoTK (automatic operation with door contact control and room thermostat)



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. **AutoTK** will be displayed in the top display line.

Select a ventilation setting by turning the multifunctional rotary knob to the right or left. Press the knob to confirm the selection (default setting: **fan step = 0** and **heating OFF**).

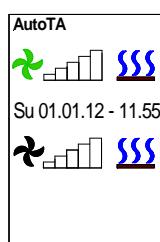
Again press the **MODE** key to activate the selected operational mode.

The required room temperature must be set through an optional room thermostat that is connected to the door contact in parallel.

Once the door with the optional door contact (external signal emitter) and/or with the room thermostat has been opened, the air curtain system will be turned on using the fan setting configured in advance.

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 **overrun** can be set in the **BASIC** menu to 10 - 300 sec. (default setting: **turning-off delay 60 sec.**, see point 5.7).

### 4. AutoTA (automatic operation with cooling protection and door contact control)



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. **AutoTA** will be displayed in the top display line.

Select a ventilation setting by turning the multifunctional rotary knob to the right or left. Press the knob to confirm the selection (default setting: **fan step = 0** and **heating OFF**).

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

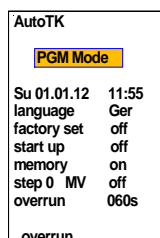
The temperature of the cooling protection must be set on an optional room thermostat. If the temperature drops below the set value, the optional solenoid valve will be opened automatically and the fans will be turned on at setting 1 (the **AKS** display will flash red).

When the doors are opened, the ventilation setting set in advance will be activated through an optional door contact switch (external signal emitter).

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 **overrun** can be set in the **BASIC** menu to 10 - 300 sec. (default setting: **turning-off delay 60 sec.**, see point 5.7).



### 5. Settings in the Basic menu (basic settings)



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.

#### 5.1 Day / date / time

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

#### 5.2 Language

Press the multifunctional rotary knob and turn it to select and change the related data. If required, you can switch from GER to ENG, NLD, FRA, ITA or PL.

#### 5.3 Factory set

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

#### 5.4 Start up

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: **off**).

## 5.5 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**.)

## 5.6 Step 0 MV (setting 0 MV)

Press the multifunctional rotary knob and turn it to select and change the related data.

**step 0 MV off** = optional solenoid valve is closed when the fans are not turning.

**step 0 MV var** = optional solenoid valve is operated variably when the fans are not turning depending on the heating setting.

(Default setting: **step 0 MV off**.)

## 5.7 Overrun (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. Error messages are displayed in orange

**No enabled** will be displayed when the building management system (DDC) does not release the air curtain system for use. The system cannot be put into service.

### Cancel error message

The message will be cancelled automatically when the building management system has released the system.

## 7. Faults are shown in red

**Frost alarm** 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.

**Motor overheat** will be displayed when a fault occurs in the fan motors. The faulty fan 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). Turn the multifunctional rotary knob to select the **confirmation** option and press the rotary knob to confirm the selection.

## 8. Details



At most 10 air curtain systems can be managed with one control panel with the GTM II EC 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 fan will be put out of service with regard to **Motor overheat**.

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

### Potential-free messages

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.

## 9. 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
	No enabled	Fault in DDC release	See point 6
	Frost alarm	Air supply temperature too low	Increase the air supply temperature
Insufficient airflow speed	Motor overheat	Fan faulty Air supply filter dirty	Replace the fan (see point 7) Clean the filter
	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 8).

## 10. Schedule

