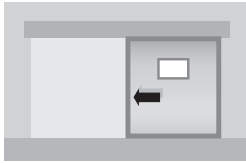


Supplement to Operating Instructions T-1821



TORMAX 2353.HERM
 TORMAX 2453.HERM

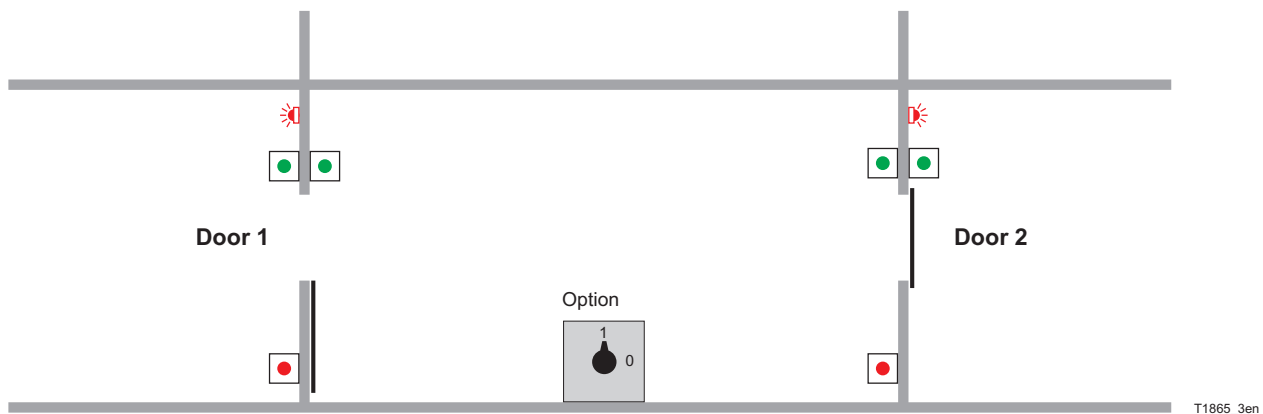
Control System for Air Locks

General Information

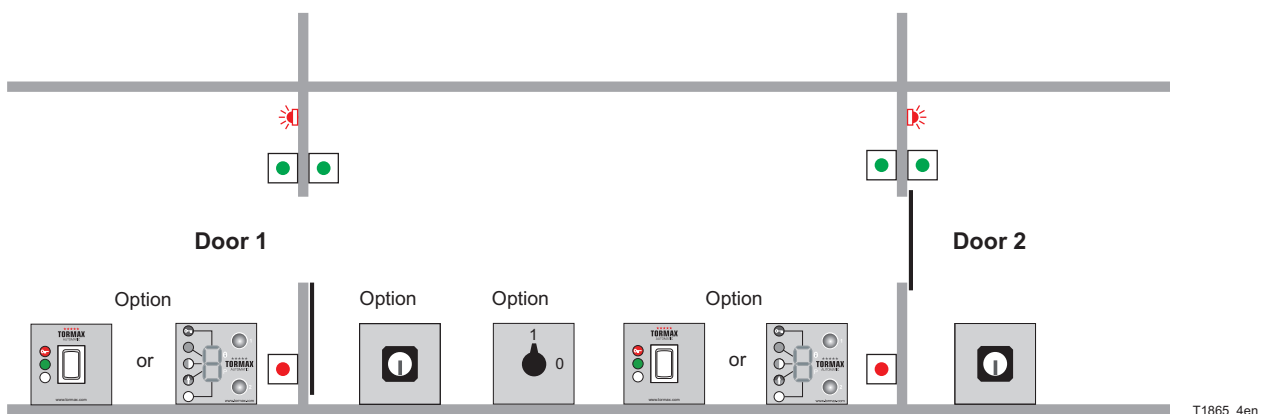
This supplement to the Operating Instructions is only complete in conjunction with Operating Instructions T-1821. The safety information in T-1821 must be observed.


System Overview

Air lock with 2 doors without operating mode selection (AUTOMATIC)




Air lock with 2 doors with operating mode selection



 **Sensor function (internal, external):**
 Push button, elbow switch, foot switch, contact-less hygiene switch, sensors for the automatic detection of persons


 **Keyswitch function:** Card reader, a code lock or a biometric sensor

 **Emergency opening function:** Locks after activation (protected, e.g. behind glass)

 **Signal "Please wait":** LED display

 **Air lock switch**

 **Operating mode switch:** OFF, AUTOMATIC, OPEN

 **TORMAX operating unit:** OFF, AUTOMATIC, EXIT, OPEN, P (manual operation)

Function

In normal operation the air lock control system prevents the doors from opening at the same time.

Passage: After being triggered by the sensor on a door, this door opens. The other doors remain closed and locked until the door which opened has closed once more.

After this, one of the other doors can be opened by the sensor.



If a sensor is activated on the door that is currently locked, the "Please wait" signal is displayed. In this case the impulse for the subsequent opening is stored for a maximum of 1 minute. The door opens automatically as soon as it is no longer locked.

Operating Modes

The operating mode set on a door only applies to this door. The following combinations can be sensibly used.

AUTOMATIC is the standard operating mode. This applies if there is no operating unit or operating switch on the door system.

Example of an air lock with 2 doors

Door 2 (external)	Door 1 (internal)	Air lock	Function
Air lock OFF		inactive	The interdependent locking of the 2 doors is deactivated regardless of the operating mode which has been set. Both doors can be operated independently of each other.
Air lock ON		active	The interdependent locking of the 2 doors is maintained and is dependent on the operating modes which have been set.
OFF	OFF	active	The doors can only be opened using the key switch function.
OFF	AUTOMATIC	active	Door 2 (external) can only be opened using the key switch function, and door 1 (internal) can be opened using the sensor function.
AUTOMATIC*	AUTOMATIC*	active	The doors can be opened in both directions using the sensor function.
AUTOMATIC	OPEN	inactive	Door 1 (internal) is open. Door 2 (external) can be opened using the sensor function.
OPEN	OPEN	inactive	Both doors are open.
AUTOMATIC	P	inactive	Door 1 (internal) is in manual operation and can be activated manually. Door 2 (external) can be opened using the sensor function.
EXIT	EXIT	active	The doors can only be opened from the inside using the sensor function. Entry via door 2 (external) is only possible using the key switch function.

Procedure in the event of a fault

If a fault occurs on a door this is displayed on the TORMAX operating unit along with a fault number, or is indicated as a general condition on the status LED. See Operating Instruction T-1821, Section 6 for instructions on how to proceed.

System reset / reset

A system reset /reset can be activated on each of the doors individually using the TORMAX operating unit, the power switch or by changing the operating mode using the operating mode switch.

Fault in the air lock system

If there is a fault in the air lock system or on one of the doors, in some cases the air lock function is automatically cancelled. To cancel the air lock function: Use operating mode OPEN, or the power switch on one of the doors or the air lock switch (optional).

Systems without the “Select option” facility

In emergency situations the door can be opened using the emergency opening button.

Fault table

Supplement for air locks. See Operating Instruction T-1821 for further fault numbers.

System behaviour	No.	Cause	Remedy/reset
Air lock system cancelled.	E27	Fault in the CAN connection of both doors.	Arrange for the system to be repaired by a specialist.
Door with a fault message remains stationary. Air lock function is cancelled.	E0x E1x E2x E5x E6x	Internal fault	Arrange for the system to be repaired by a specialist.
One door remains open or only closes slowly. The other door is locked.	E31 E32	Safety sensor is permanently active >1 minute or defective.	Remove any objects from the sensor area and wait for 30 seconds. If this does not rectify the fault, arrange for the system to be repaired by a specialist.
Door does not open or only opens slowly. The other door is locked.	E33 E34	Safety sensor in the opening direction is permanently active for >1 minute or defective.	Remove any objects from the sensor area and wait for 30 seconds. If this does not rectify the fault, arrange for the system to be repaired by a specialist.
One door remains open. The other door is locked.	E41 E42 E43	Sensor or key switch is permanently active for >1 minute.	Reset the switch.
One door remains open. The other door is locked.	E45	Emergency opening is active.	Reset the locked button.
One door is stationary. The other door is locked.	H33 H34	Solid obstruction in the door's travel area.	Reset using the operating mode switch, the mains switch or the operating unit (hold button down for 5 seconds).
The door cannot be opened by a sensor.	–	Operating mode OFF, EXIT or P has been set.	Set operating mode AUTOMATIC.