



## Steca TE A603

### Expansion module (Slave)

The Steca TE A603 expansion module facilitates modular expansion of the Steca TR 0603mc and Steca TH A603 M system controllers. Optional functions and system expansions allow these system controllers to be adapted individually to the system to be controlled.

The Steca TE A603 includes six inputs for recording temperatures or pulse values as well as an additional Grundfos Direct Sensors™ input for combined temperature and flow rate measurement. Pumps and switching valves are controlled using three outputs, some of which can be speed controlled. Up to three Steca TE A603 expansion modules can be connected as bus slaves via the Steca TPC 1 bus to the Steca TR 0603mc or Steca TH A603 M system controller. The user friendly menu of the system controller is not only used to adjust all functions and parameters of the expansion module, but also monitor while it is running. Four LEDs provide information on the operating status of the expansion module.



### Product features

- Flexible and expandable
- MasterSlave concept
- Compact, multipart designer casing
- Electronic speed control
- High level of operational safety through fault diagnosis
- Hours-of-operation logger
- Software update possible
- Steca TPC 1 bus networking with the Steca TR 0603mc or Steca TH A603 M (Master) allows the realisation of individual systems
- Integrated Steca TPC 1 bus
- Screw terminals allow universal and rapid installation

### Displays

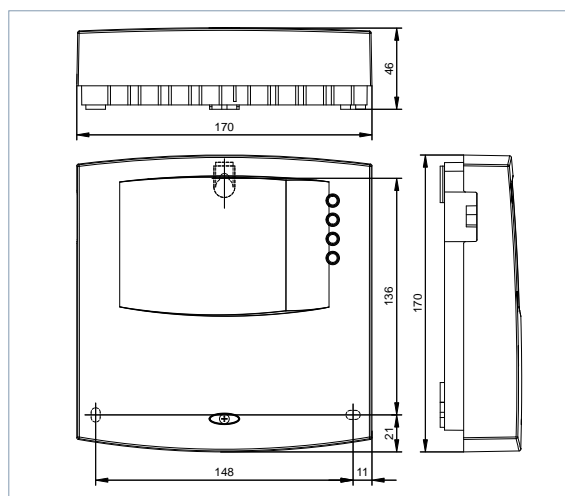
- Measured values via the Steca TR 0603mc graphical LCD display or the Steca TH A603 M (Master)
- 4 LEDs show operating states

### Operation

- User-friendly operation by using the Steca TR 0603mc or Steca TH A603 M (Master) menu system
- Side button for Steca TPC 1 bus addressing

### Functions

- 2 x heat quantity (Grundfos Direct Sensors™, pulse generator)
- Active cooling (e.g. to avoid stagnation)
- Circulation (controlled by temperature / time / pulse)
- Back-up heating (with optimization for solar power)
- Solid fuel boiler
- Bypass
- 3 x thermostat
- 3 x differential thermostat
- 2 x timer
- Interval / tube collector
- Anti-legionella cyclical storage tank heating
- Alarm output
- Synchronised output
- Additional solar storage tank for connected solar controller
- Booster function



	TE A603
System voltage	230 V (± 15 %), 50 Hz optional 115 V (± 15 %), 60 Hz
Own consumption	≤ 2 W
Inputs	6 5 x temperature (Pt1000) 1 x temperature (Pt1000) or pulse
Additional input	1 x Grundfos Direct Sensors™ (temperature / flow rate)
Outputs	3 2 x triac for speed control (R1, R2), max. 250 W (230 V) 1 x switch output relay (R3), max. 800 W (230 V) or R3 voltage free
Additional output	1 x alarm output or 1 x voltage free (SELV)
Hydraulic schemes	40
Ambient temperature	0 °C ... +45 °C
Interfaces	RS232, RS485 (Steca TPC 1 bus)
Degree of protection	IP 20 / DIN 40050
Dimensions (X x Y x Z)	170 x 170 x 46 mm
Weight	450 g

Technical data at 25 °C / 77 °F

[inputs/outputs]



\*The trademark Grundfos Direct Sensors™ is owned and controlled by the Grundfos group.



### Bus connection

By connecting the expansion modules Steca TE A603 (Slave) to the Steca TPC 1 bus of the system controller Steca TR 0603mc or heating controller Steca TH A603 M (Master), the corresponding system can be expanded.

#### Example of application 1: System controller Steca TR 0603mc with the expansion module Steca TE A603



#### Example of application 2: System controller Steca TR 0603mc with the heating controller Steca TH A603 MS and the expansion module Steca TE A603



#### Example of application 3: Heating controller Steca TH A603 M with the heating controller Steca TH A603 MS and the expansion module Steca TE A603

