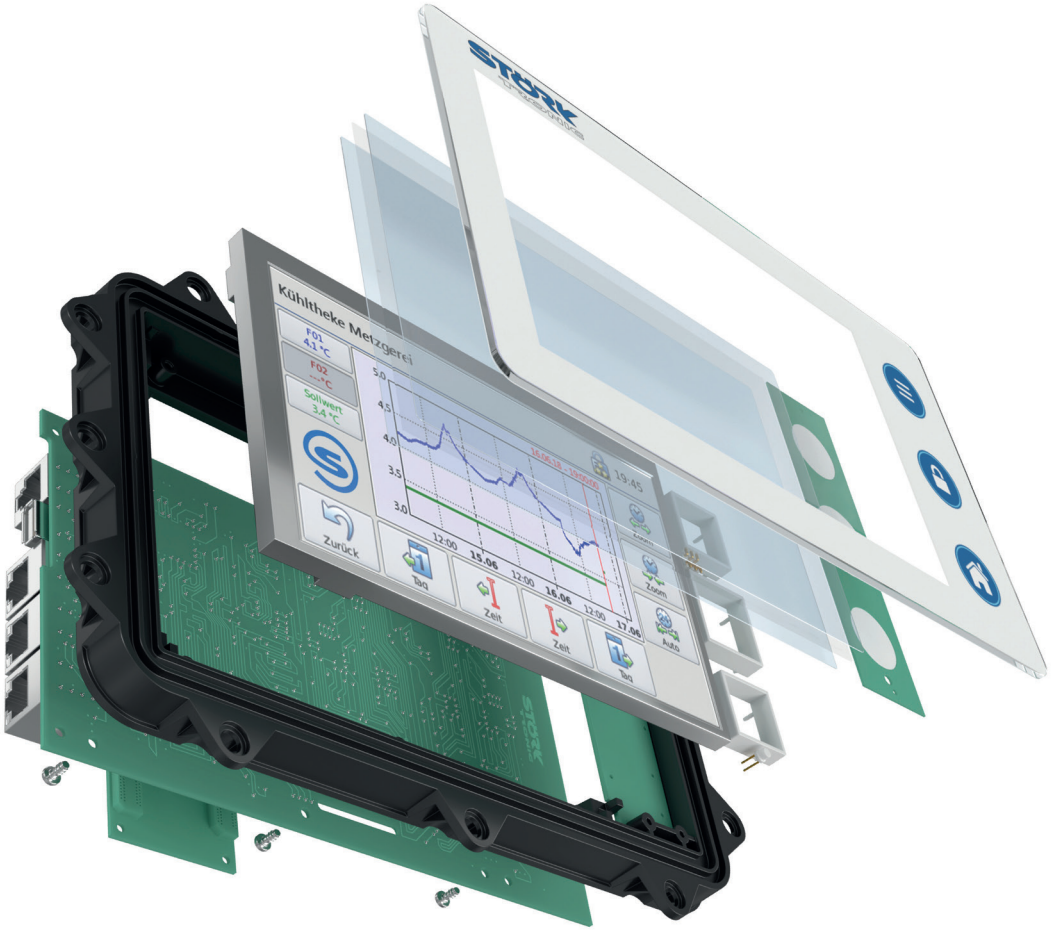
STÖRK TRONIC

COMMANDER

PERFECTLY NETWORKED



100% made in Germany!


18.0
SET
18.0°C
-2.6°C
F1
F2
MENU
OK
ESC
4.8
75
8.0
SET

ST-STUDIO

Controller list
09:34:26
Controller 1
F1 direkt
18.0
Controller 2
F1 direkt
18.0
Controller 3
F1 direkt
4.8
Controller 4
F1 direkt
8.0


ST-STUDIO

THE COMMANDER

Störk-Tronic develops and manufactures exclusively in Stuttgart and has been combining competence and innovation in the field of electronic measurement and control technology for more than three decades.

Pioneer in networking

As a pioneer in the networking of electronic temperature control systems, Störk-Tronic introduced the Commander 57 in 2005. It enabled remote maintenance and monitoring of all connected controllers. In 2008, for example, the Commander was used as the heart of the catering system at the Olympic Tower in Munich.

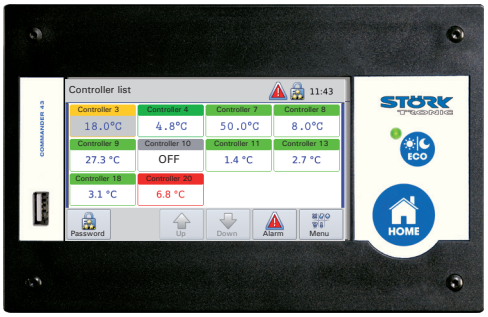
Experience creates perfection

Through experience and by listening to our customers, the Commander has been constantly developed further. The Commander 43 was introduced in 2010 and the Commander 70 in 2018. Both are similar in functionality, having many of the same setting options – but adding a different visual display in a different format using capacitive touch screen technology.

In use worldwide

Countless Commanders are in use worldwide as "command centres" and are characterised by the ease in which they cross over into various market segments. For example, some typical industries are: commercial and industrial cooling, baking technology, medical, laboratory, commercial kitchen and frying industries.

2005-2013: Commander 57.



Since 2010: Commander 43 with resistive touch screen.

Since 2018: Commander 70 with capacitive touch screen.

Controllers with this symbol can be networked with the Commander via the St-Bus.

Default mode

PLUG & PLAY – IMMEDIATELY AFTER THE START-UP THE FIRST RECORDINGS CAN BE PERFORMED

The Commander enables remote maintenance and remote control of networked temperature control systems in the sense of consistent temperature and data monitoring (e.g. according to HACCP). Up to 32 controllers can be connected to the Commander via the ST-Bus enabling temperature and parameters adjustments directly via the touch screen.

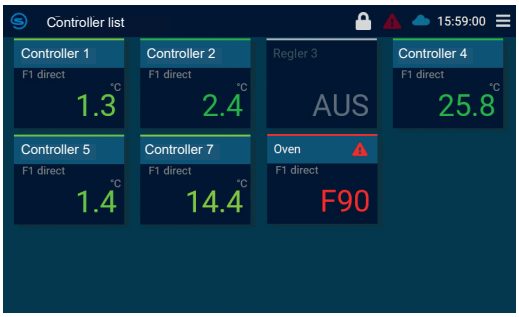
No training necessary

The user-friendly interface and self-explanatory , intuitive operating system reduces any time consuming training sessions. Even with only a few cooling or heating setpoint adjustments, you save time as it's no longer made on the individual controller(s) but on the Commander.

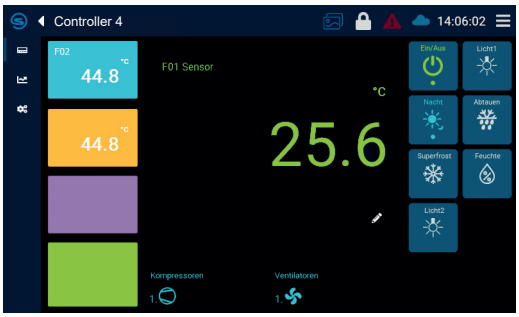
All connected controllers are automatically detected

Once the Commander is connected, it can start monitoring immediately thanks to the automatic detection feature. Measured values such as temperature, humidity, pressure or the control variables of valves or switching commands of compressors, pumps, defrost or fault messages are automatically recorded.

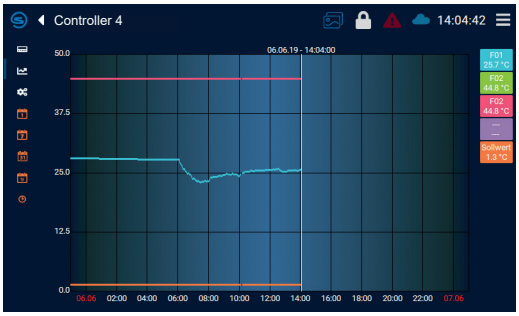
Software updates for the Commander and any connected controller can be carried out via the USB interface.



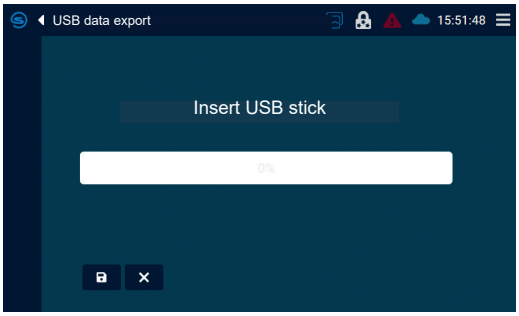
The colour coding: red = alarm/warning, green = ok, Grey = Controller off, dark green = Night setback, yellow = Defrost active.



Each controller can be set individually via the Commander.



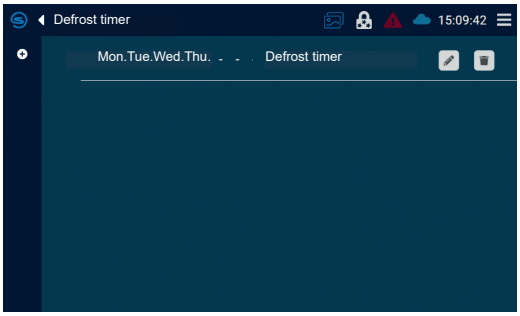
Visualisation of all data from the 112 or 212 standard software to complex superheat controllers and compound systems.



The recorded measured values can be easily exported via Ethernet and/or the USB interface.

Weekly timer

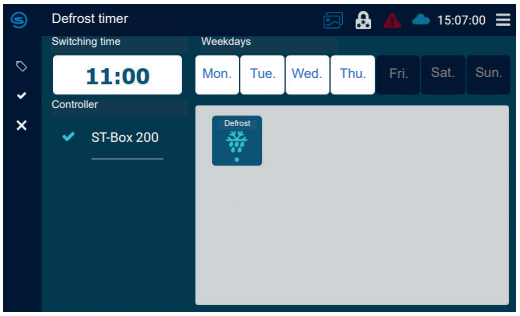
With the weekly timer function, setting programmes such as defrost loops, lighting features or cleaning cycles can all be activated automatically, reducing power peaks and energy consumption. In addition, the controllers can be individually configured and named.



With the timer, time-shifted defrost zones can be programmed to avoid power peaks.

Tamper protection

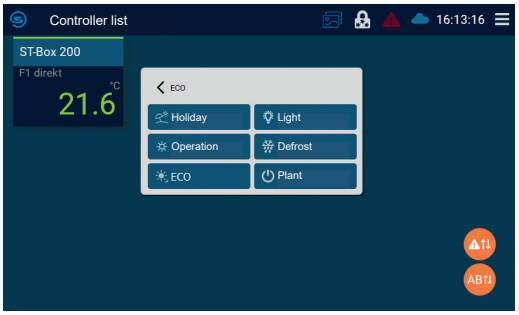
The Commander's tasks also include the complete recording of temperatures (HACCP-compliant). The Commander records already after the first start-up.



The switching of light at defined times of day on weekdays, public holidays and vacation days is determined by the weekly timer for all controllers individually or for selected controller groups.

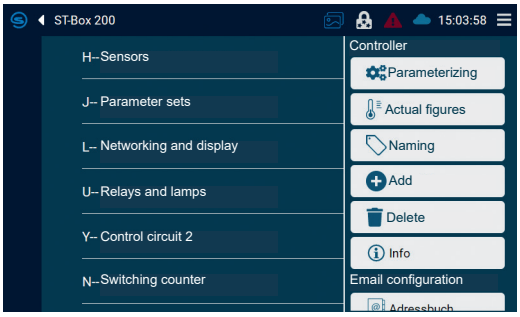
ECO function

The ECO function can be used to define various energy-saving functions that will override the preset weekly programme. The individual program settings can be defined for individual controllers or controller groups. Advantage: The weekly timer does not have to be reprogrammed or changed, as the ECO mode works independently of it.

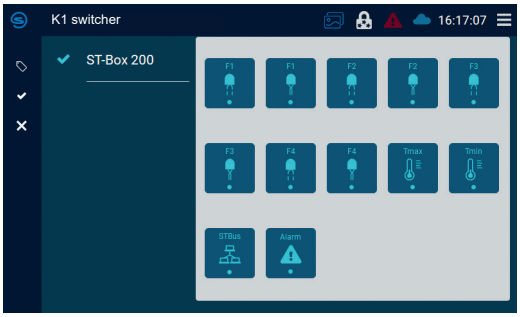


When the ECO function is activated, special settings, e.g. for holiday periods, are switched on and off again. The ECO mode overrides the regular weekly program.

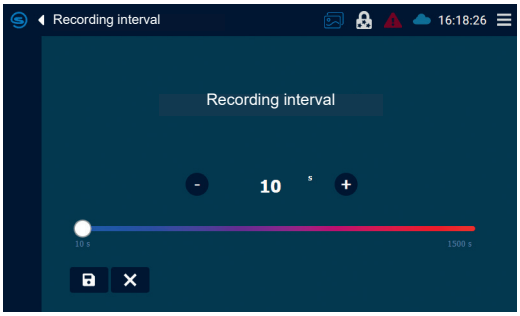
SIMPLE AND FREELY ADJUSTABLE FOR EVERY APPLICATION



Each connected controller is individually adjustable. All parameters are permanently monitored by the Commander – each deviation is processed and documented according to a preset alarm plan.



In the event of an error, status messages with brief information such as sensor error, over- or undertemperature can be sent to selected receivers.



The recording interval is freely selectable. If the factory setting is 120 seconds, the manipulation-protected storage volume is sufficient for 12 months. All recorded data can be backed up via a USB interface.

The Commander can be adapted to your requirements with further settings. With the minimum of training, we can provide you with the necessary 'know-how' to fully exploit the performance of the Commander beyond the standard mode.

Reduce costs

Control parameters and energy-efficient settings can be optimised when commissioning your system. By continuously recording the data and comparing it with older data, it is possible to detect ageing effects of the plant at an early stage and implement a timely maintenance schedule. The costs are minimised because components can be replaced before a system failure.

Reminder functions

The programmable maintenance/service interval reminds the customer, for example every 12 months, about due service date agreements and warranties.

The additional battery installed in each Commander ensures that the real-time clock continues to run even in the event of a power failure.

Alarm management

The alarm function of the Commander is already activated in standard mode. Additional alarms can be set individually by further configuration options: Collective alarms, high temperature, low temperature or door alarms of defective probes.

Alarm signals can be shown on the display along with a signal tone and e-mails can be sent out to addresses from an address book.

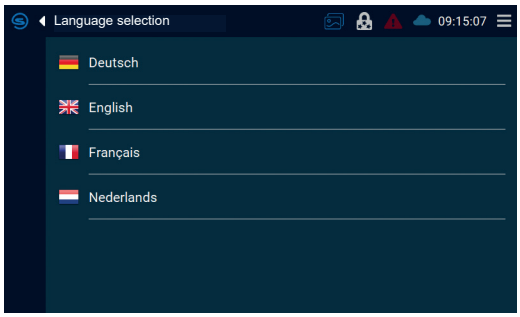
Extensive setting options

The Commander and the entire system can be completely customised. The available standard languages German, English, French and Dutch can be set via the menu. Further languages can be added upon customer request. In addition to automatic summer and winter time, the time zone can also be selected.

User administration

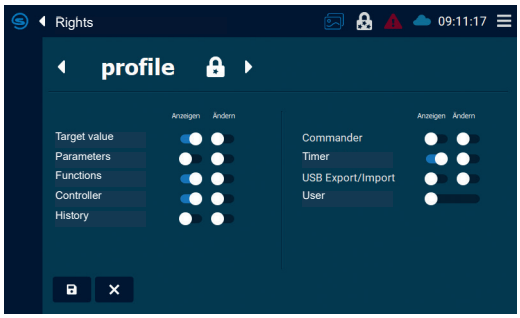
Selectable user levels can be used to grant different access rights to end users, service technicians and management, for example.

In addition to the user levels and roles, customer-specific functions such as "setpoint visible/invisible/changeable" can be assigned.

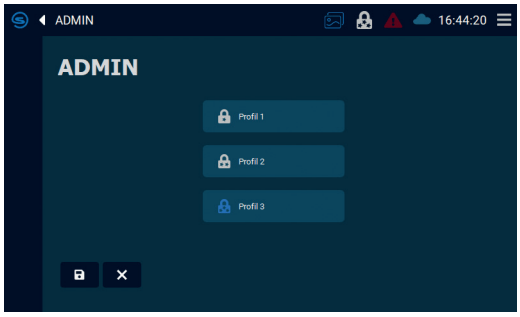


The basic settings include language, time zone, summer and winter time.

In the alarm management, it is defined who is notified in case of which deviation.



Each user is assigned different rights by the administrator with a simple click.



Different users receive different intervention rights - password-protected.

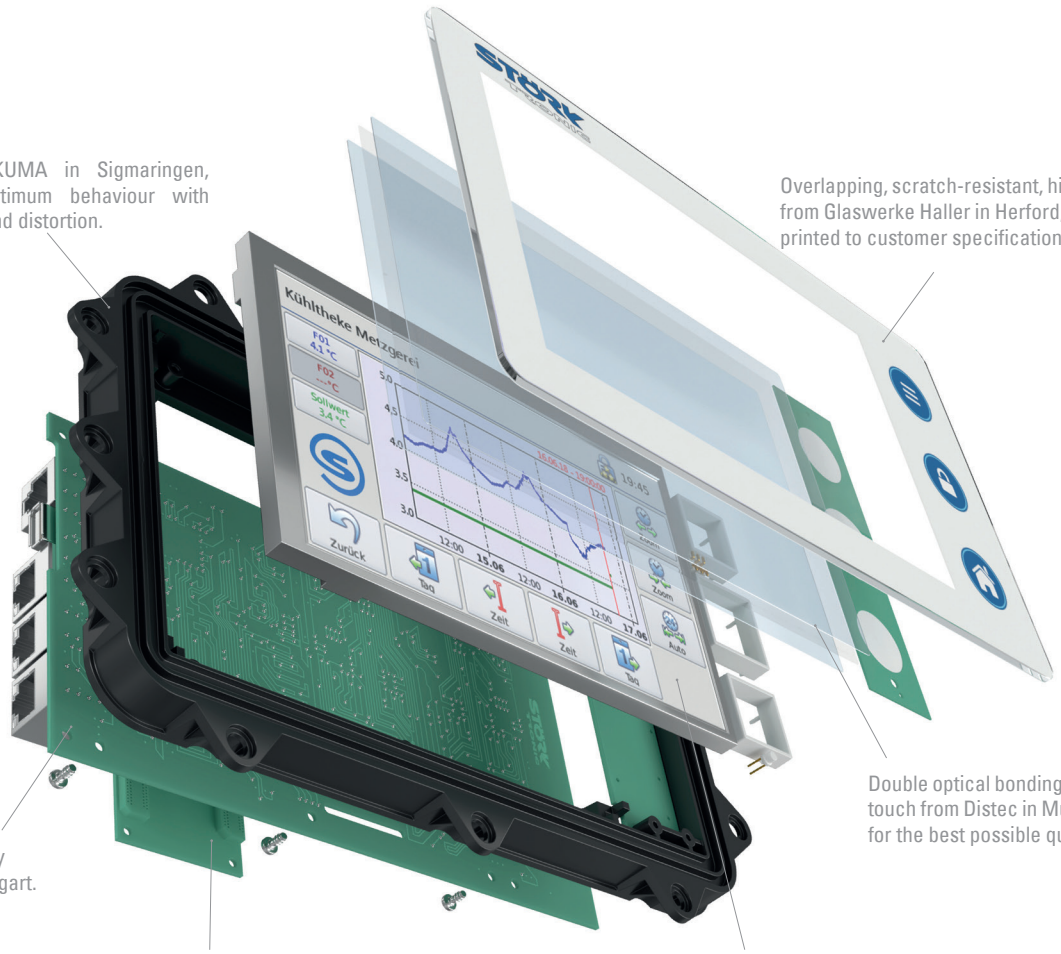
THE NEW COMMANDER IN PREMIUM QUALITY

Advantages of Optical Bonding

- Maximum front sealing IP 65
- Very modern design (iPad style)
- Rear mounting for a completely flush front
- Use of patented VacuBond Gel "Made in Germany"
- Production under clean room conditions, so that no particles are to be found on the display

Technical data of the Commander 70

- 7 inch display
- 800 x 480 pixel resolution
- Multitouch Capable Capacitive Display
- Powerful CORTEX A8 Processor
- Designed for up to 32 controllers
- SSL encryption
- Ideal for networking heating and cooling systems
- Ambient light sensor for optimum brightness control of the display



Housing from BEKUMA in Sigmaringen, Germany, with optimum behaviour with regard to flatness and distortion.

Overlapping, scratch-resistant, high-quality glass from Glaswerke Haller in Herford, Germany, back printed to customer specifications.

Equipped board
100 % made in Germany
by Störk-Tronic in Stuttgart.

Double optical bonding with capacitive touch from Distec in Munich, Germany, for the best possible quality.

Processor board from PHYTEC in Mainz, Germany.

High-resolution Kyocera 7" display with 800 x 480 pixels, a brightness of 500 cd/m², a wide 85° viewing angle and a service life of at least 70,000 hours.

Details of the Commander Box

With the Commander Box, Störk-Tronic also offers a cost-effective alternative. Also, up to 32 controllers can be managed, but in contrast to the Commander 43 or Commander 70, the Commander Box has no display and visualisation is via a web interface or ST-Studio. Configuration can also be carried out via a web interface or via ST-Cloud.

Interfaces

- 1x Ethernet interface (LAN standard connection)
- 2x RS485 interface (1x ST-Bus and 1x ModBus Master)

Optional WiFi interface

Using the optional WiFi interface, a wireless connection can be provided in two different modes.

In client mode, the Commander Box communicates with a locally installed WiFi router to provide its recorded data (preferred connection).

In access point mode, end devices such as smartphones connect directly to the Commander Box via WiFi (no WiFi router required).

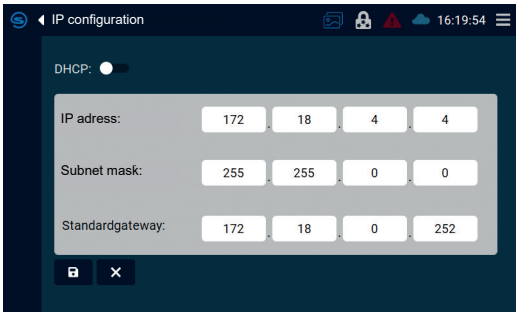
Specifications

- Wide range power supply: 100-240 V AC, 50/60 Hz
- Housing size: 170 x 120 x 48 mm
- Sealing of the housing: IP 20
- Mounting type: DIN rail, wall mounting

The ST-Studio software package enables the operation, adjustment and parametrisation of individual controllers via a company's own network or the Internet. Optimised data sets can be imported in a convenient way. ST-Studio is permanently in dialogue with one or more Commanders via local networks or the Internet, that report any malfunctions in the system.

Administration of several Commanders

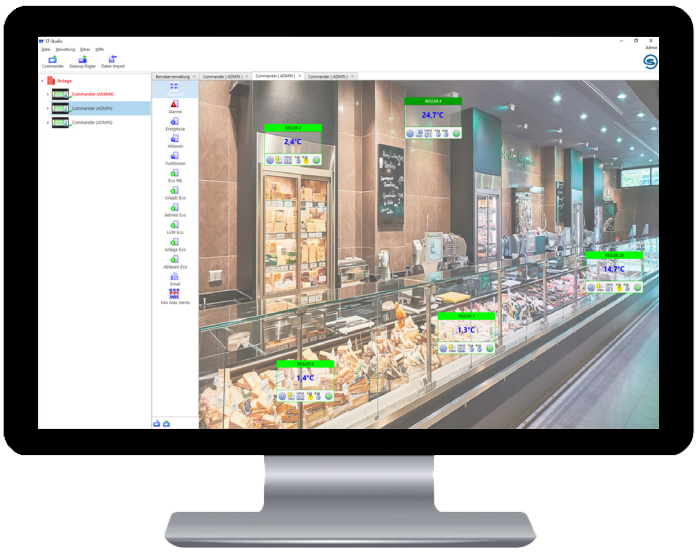
ST-Studio can be used to conveniently configure and parametrise several Commanders and all connected controllers. Different parameter sets can be defined and used for different customers.



Remote maintenance and remote control of individual controllers can be easily configured by integrating the web server into a local network.

Easier monitoring: Parameter sets can be saved, uploaded and copied.

In ST-Studio, all events, alarms, measured values and important status changes, including the corresponding setpoint/actual values, can be displayed graphically or in tabular form (HACCP-compliant).



Webserver Connectivity – the web interface for remote access to your Commander.

Messaging – allows important notifications to be sent through a variety of channels, such as email, text message or chat.

Analysis – for predictive maintenance/system analysis.

ST-Studio Cloud Networking – implements remote access via ST-Studio, Cloud Admin Interface or App.

Storage – enables measurement storage and reporting in the ST-Cloud.

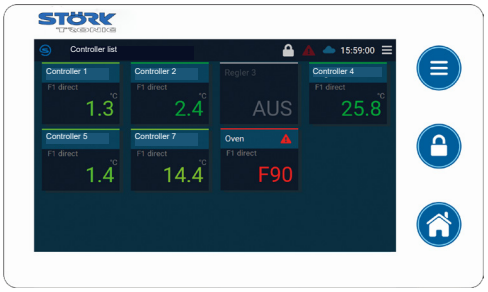
Recipe administration – for the central administration of (baking or cooking) recipes.

API interface – so that you can easily connect your application with the Störk-Tronic Cloud.

Monitoring via Tablet or Smartphone

In addition to the ST-Studio software solution, the controllers can also be accessed via the Internet. Parameter changes as well as alarm and error messages can be managed from anywhere in the world.

Communication from Commander to smartphone or tablet.



STÖRK TRONIC

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