

FST-2XT

LIFT CONTROL SYSTEM

One controller – unlimited applications





NEWLIFT
NEUE ELEKTRONISCHE WEGE

INVENTOR SINCE 1986

The custom tailor among the control system suppliers

Though just three letters, it heralded the advent of a revolution: SST. Hidden behind it was the first system in the industry that was immediately ready for operation (Plug & Play) – a multiprocessor control system with diagnostics via LEDs. This invention in 1986 was the starting shot for our company – and for many innovations and further developments which our customers profit from. This includes not only small- and medium-sized lift manufacturers but also global corporations that want to use our control systems in their lifts. As the largest independent supplier in Germany (165 employees), we are specialized in tailor-made, customer-specific products. And now for home lifts as well. With our ELEVISION 4.0 multifunctional cloud platform, our engineers and developers are once again breaking new technological ground.

NEW LIFT CONTROL SYSTEMS

NEW LIFT has for years been known for its innovative control systems.

Why should you consider selecting a NEW LIFT control system as well? The answer is easy:



FLEXIBILITY

NEW LIFT control systems are based on bus technology. This enables flexible use for every lift: from a single lift with two floors to up to groups of eight high-performance lifts with as many as 64 floors.



INDIVIDUALITY

From special software solutions to individually developed hardware (special control systems): everything is possible.



PLUG & PLAY

With pre-assembled components and easy and intuitive operation/error diagnostics as well as the systematic use of bus technology, you achieve the shortest possible installation times with NEW LIFT products.



KNOW-HOW

NEW LIFT has over 30 years of experience in the area of control systems.



INNOVATIONS

We are constantly developing our products further so that you can profit from the latest solutions.



QUALITY

Quality has top priority with us as only flawless components guarantee high-quality end products.

LIFT CONTROL SYSTEM
FST-2XT



ALWAYS COMPATIBLE

Whether just the lift control system or everything from a single source: NEW LIFT keeps all of your options open.

Compatibility is of utmost importance during the development of all NEW LIFT products. The centrepiece is the FST-2XT lift control system, which, with the modular bus system, can be combined with various NEW LIFT components and components from other suppliers. Whether just the lift control system or everything from a single source: NEW LIFT keeps all of your options open. From landing call modules to position indicators to speech output, NEW LIFT offers a range of components that guarantee short installation times through optimum compatibility with the FST-2XT controller.

NEW LIFT has also established itself in recent decades in the area of lift monitoring and offers various systems.



One controller –
unlimited applications

LIFT CONTROL SYSTEM FST-2XT



The FST-2XT is designed for use in hydraulic and cable lifts and can handle the different challenges covering the entire range of installations from small to very large.

Thanks to its modular design, the FST-2XT is unbeatable both in standard applications as well as with special solutions as it can be expanded nearly limitlessly, making it very flexible and highly customisable.

On the large colour TFT display, the FST-2XT Guide displays important information regarding, among other things, the currently selected menu item.

MAIN FEATURES

- **Compact design:**
Pre-control module and safety circuit bypass control integrated on the FST-2XT circuit board
- **Plug & Play:**
Prefabricated travelling and bus cables with plug-in connections on both ends
- **Automatic calibration and learn drives**
- **Cost efficient layout guarantees superb cost-performance ratio**
- **Integrated UCM-A3 monitoring:** Detection*, triggering, shutdown and function test according to EN81-20/50:2014
- **Certified in accordance with EN81-20/50**

* With active door zone circuit

FST-2XT SPECIFICATIONS

- LON bus technology is systematically applied on all components, for flexible installations and uncomplicated commissioning
- Up to 64 floors with two buttons
- Up to eight group members within an FST-2XT group control system
- Up to three car doors can be controlled
- Three separate microprocessors for lift management, drive control and bus
- Digital shaft positioning with absolute value or incremental encoders
- Micro SD card slot and USB port for extensive and detailed logging of LON bus traffic, drive curves and group statistics
- Serial interface for PC or modem/fax
- DCP inverter interface
- CAN interface
- Ethernet interface with 100/10 Mbps
- Controller menu in English, German, French, Polish and Swedish
- Completely compatible to FST-2 and all according modules
- CANopen for inverter and doors
- LON/CAN gateway for any CAN modules

FUNCTIONS

- Up to 80 programmable inputs and outputs
- Fire recall and fireman service according to various standards
- Evacuation control
- Error storage, drive and door call statistics
- Operating hours, drive and door cycle counter
- Brake, motor and contactor monitoring
- Determination of landing and braking distances through automatic calibration drive
- Anti-nuisance function
- Emergency call suppression
- Password (4-digit)
- Park drive (3 programs/weekday)
- Car light monitoring, installation mode
- Car fan control
- Various call modes
- More than 35 drive controls selectable
- Control menu also via the HHT hand-held terminal, XT-Terminal app as well as the ELEVISION 4.0 lift monitoring system

INTEGRATED SPECIAL FUNCTIONS

- Energy-saving mode (ESM)
- Various VIP controls
- Various loading functions
- Visitor control for penthouse suites
- Lobby stop for hotels
- Lift attendant mode
- Disabled call control
- Ramp control
- Bank control (up to 16 user groups)
- Folding or telescopic apron control
- Up to 8 blind or pseudo floors programmable
- Car/landing priority drive (several variants)
- Evaluation of safety curtains
- Various porter functions

SUPPORTED SPECIAL FUNCTIONS

- Remote monitoring and remote control via ELEVISION 4.0 with PAM E4.
- Interfaces for transport systems such as "Swisslog" or "Transcar"
- Emergency control for hospitals
- Dangerous goods transport control
- Signal light control with car positioning
- Loading barrier control
- Sabbath control
- Electric and hydraulic pawl control
- Radio transmission to the car (for inclined lifts without travelling cable)
- Interface to REM/TM4/Teleservice/KRM/Rekoba systems

TECHNICAL DATA

Dimensions (L x W x H)	200 x 310 x 50 mm
Supply voltage	24 V DC
Power consumption	300 mA

FLEXIBLE APPLICATION

The design and modular construction allow for the universal application of the FST-2XT. In standard applications, the FST-2XT supports economical shaft positioning systems and conventional landing call wiring arrangements. For high-performance installations, groups of eight with multiple bus lines can also be controlled. It plays no role here whether you wish to control hydraulic or cable lifts – it's all possible with the FST-2XT.

COMPACT DESIGN AND CLEAR ARRANGEMENT

The pre-selection module and safety circuit bypass control are already integrated on the FST-2XT circuit board. This facilitates installation in situations with limited space. For installation in situations with extremely limited space, the controller is also available as the slim version FST-2XTs. The FST-2XTs has been specially developed for installation in the door frame of the lift.

PLUG & PLAY AND EASY INSTALLATION

Both travelling cables and bus cables are prefabricated and can be plugged in on both ends. Thanks to the range of possible uses of the spare conductors of the flat travelling cable, additional travelling cables are no longer needed for typical emergency call control systems. In addition, the automatic calibration and learn drives of the FST-2XT guarantee an unmatched ease of installation.

INTELLIGENT DIAGNOSTICS

Efficient troubleshooting is one of the biggest strengths of the FST-2XT. For this purpose, the integrated FST-2XT software provides many diagnostic menus and self test functions. Through the continuous, extensive and detailed recording of LON bus traffic, drive curves and group statistics, it is possible to transfer past events to the SD card, to the USB stick or via remote monitoring at any time. This makes troubleshooting a breeze – on-site or from a remote location.

FST-2XT GROUP

The GST-XT group circuit board is a powerful computer especially developed for the FST-2XT lift control system. An FST-2XT group that has been expanded with the GST-XT can control groups with up to eight members.

With the LON field bus connection to the FST-2XT controller, the GST-XT can directly detect all activities in the group and can apply and process this information thanks to its fast processor. For installations that require the highest level of readiness, a multiple-redundant group controller option can be integrated by mounting at least two GST-XT circuit boards within the group. In the event of a system failure of the primary GST-XT circuit board, one of the secondary GST-XT seamlessly takes over the control function.

ADDITIONAL PC PROGRAMS

The intelligent FSTEditor PC program facilitates comfortable programming of the lift system on your computer. Once all settings have been made, they can be transferred directly to the controller via the FST cable. NEW LIFT provides the LON Module Center PC tool for programming the ADM landing call modules.

LIFT MONITORING SYSTEMS

NEW LIFT offers two different lift monitoring systems:

- **Elevation 4.0**
 Elevation 4.0 is provided by NEW LIFT as a cloud platform at www.elevation.de. Via individual online access, the user can display, print out and then analyse the data of the affected lift system remotely from any workplace computer.
- **LMSEleVision**
 With the LMSEleVision visualization program, a real-time monitoring of all lift systems is available at a glance. In addition, the system can be controlled remotely from the control centre and intelligent diagnostics can be performed.

HELP SYSTEM GUIDE

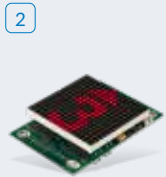
The coloured TFT display on the front panel is divided into two parts: The upper part is the familiar FST screen and the lower part is the help system. The guide offers support and help to each menu item, as well as a general help, call list and event list. The guide is controlled by using four separate keys, also located on the front panel of the controller.

FST SYSTEM



LIFT CONTROL SYSTEM FST-2XT

Based on the FST-LON bus.
The FST system includes the following LON modules:



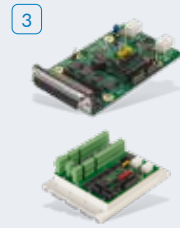
POSITION INDICATORS EAZ

NEW LIFT offers a variety of position indicators for all applications:

EAZ-256-40 & EAZ-256-64
Cost-efficient dot matrix display



EAZ-TFT-45, EAZ-TFT-110 & EAZ-TFT-210
The displays for elite requirements



CAR OPERATING PANEL MODULE FPM & FPM-2

The FPM serves as the interface between the car panel and the FST-2XT controller.



LANDING CALL MODULE ADM

The ADM is the interface between the landing call panel and FST-2XT.



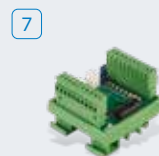
EXPANSION MODULE RIO-2

With this module, the FST can be expanded with up to 48 additional inputs and outputs.



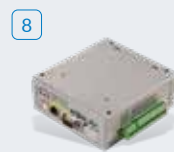
LOAD CONTROL SYSTEM LCS

The linear calibration function of the LCS allows for commissioning with a reference measurement which can be carried out by a single lift engineer.



MODULE FOR SPECIAL APPLICATIONS CUS

The so-called CUS module (custom-specific application) is the key to your individual lift system. Any number of special solutions can be implemented with this module.



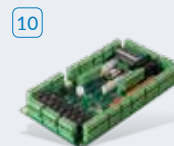
GROUP CIRCUIT BOARD GST-XT

By expanding with the GST-XT circuit board, the FST-2XT is easily transformed into an FST-2XT group.



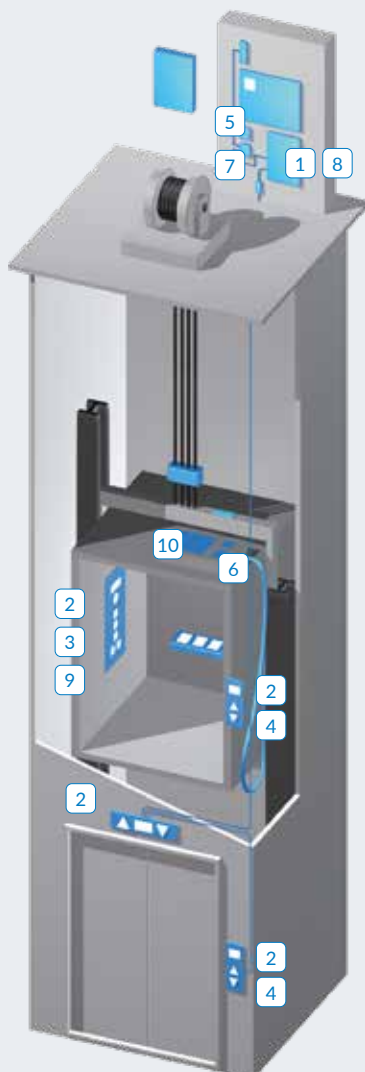
SPEECH OUTPUT MODULE SAM

The SAM includes an extensive sound library in studio quality. If you wish, you can create and use your own recordings.



CAR TOP CONTROL MODULE FSM-2*

Thanks to its compact and intuitive design, the FSM-2 car top control module ensures greater clarity in car top box and enables even faster car installation.



* These modules are included in the basic package of the FST-2XT controller.

NEWLIFT

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