

LISTcontroller SEC and LB



Features

- ◆ The LISTcontroller represents the central control and evaluation unit, utilising an ARM9™ embedded processor and two additional distributed processors to continually, quickly, and reliably monitor temperatures
- ◆ Sensor cable and unit redundancy via **Loop-Back** or **Rerouted Data Transmission (LISTEC LB- / RDT-function)**
- ◆ Alarm triggering via differential and maximum temperature evaluation
- ◆ Up to 254 programmable individual zones with alarm and fault status signalling to superordinate systems via up to 16 relay modules with 16 relay contacts each
- ◆ High temperature resolution of 0.1 °C with a repeatability of ±0.1 K along the entire sensor cable length
- ◆ Free from false alarms, caused by natural ambient temperature fluctuations, due to intelligent evaluation algorithms
- ◆ Alarm and fault indications via **LEDs** and **LC-Display** plain text messages in several languages
- ◆ Signalling of alarm and fault status to superordinate systems via galvanically isolated relay contacts and/or data-interfaces with open data-protocols
- ◆ Highly durable via utilisation of maintenance-free components in a modular configuration, **RoHS** compliant
- ◆ Very low energy consumption
- ◆ Flexible communication
- ◆ Verified and approved to *FprEN 54-22:2012* by VdS Schadenverhütung, VdS no.: G 213072.
Meets requirements of environmental classification III
- ◆ Web-Interface
- ◆ 8 languages configurable (Dutch, English, French, German, Italian, Polish, Spanish, Swedish)
- ◆ Individual password-protected access levels for operators, maintenance and service personnel, as well as for commissioning

Front Panel Displays

- ◆ Operation: **LED green**
- ◆ Measuring cycle: **LED blue**
- ◆ Data transmission: **LED orange**
- ◆ Fire alarm **SEC-A / SEC-B**: **LED, each red**
- ◆ Fault **SEC-A / SEC-B**: **LED, each orange**
- ◆ **LC-Display**: Plain text messages and menu navigation

Designation
T: tt.t D:tt.t
dd.mm.yy hh:mm

nnn Measuring
Umm Znnn Soooo
dd.mm.yy hh:mm

nnn T-heating
Umm Znnn Soooo
dd.mm.yy hh:mm

nnn Fire alarm
Umm Znnn Soooo
dd.mm.yy hh:mm

RDT: Start
dd.mm.yy hh:mm

Front Panel Operation

- ◆ 5 button membrane keyboard for menu navigation, data and function input

System Specifications

- ◆ Measuring resolution: 0,1 °C
- ◆ Repeatability: ± 0,1 K
- ◆ Sensor quantity: Min. 10 / max. 500 (320 approved by VdS Schadenverhütung according to *FprEN 54-22:2012*)
- ◆ Sensor cable length: Up to 3.200 m

Connections and Interfaces

- ◆ SEC1 / SEC2: **SEC-A / SEC-B** sensor cable connections (**SEC2** only with **Loop-Back** or **RDT**-systems)
- ◆ CONTROL I/O: **RS485** data-interface to optional relay modules, as well as in/outputs (external reset, general relays for pre-alarm, alarm, fault, frost-alarm)
- ◆ 24 V DC: Power supply
- ◆ COM1: **RS485** data-interface for LIST master/slave or **RDT**-communication in a LIST network
- ◆ COM2: **RS232** Service-interface for LISTEC GmbH only
- ◆ COM3: **RS232** data-interface for unit parametrisation (Service-interface up to 115200 kb/s)
- ◆ LAN: Ethernet network-interface with 100Mb/s for LIST **RDT**-communication, as well as commissioning and maintenance via standard browsers
- ◆ **USB-Host**: To retrieve maintenance files and optionally saved alarm temperature data, as well as to transfer unit configurations and perform software updates

Supported Software-Protocols

- ◆ MODBUS (RTU) via serial interface **COM2**
- ◆ 3964R (Siemens) via serial interface **COM2**
- ◆ UGM 2005/2020 (Bosch) via serial interface **COM2**
- ◆ EDP (Esser data protocol) via serial interface **COM2**
- ◆ UGM 2040 (Bosch) via **LAN** interface
- ◆ MODBUS TCP via **LAN** interface
- ◆ IEC 60870-5-104 via **LAN** interface

General Data

- ◆ Operating temperature: -5 °C ... +70 °C, (-25 °C feasible with the exception of an illegible **LC-Display**)
- ◆ Dimensions: 482,6 x 43,6 x 315,5 mm (w x h x d), resembling a 19" - 1 U case, 400 mm depth to be considered with connection cables attached
- ◆ Case material: Aluminium
- ◆ Weight: 2,6 kg
- ◆ Power supply: 9,5 V ... 36 V DC
- ◆ Current draw: Typ. 175 mA (Normal) / 212 mA (Alarm), at 24 V DC
- ◆ Power consumption: Max. 5 W
- ◆ Relay output: 1 Relay each for alarm, pre-alarm and frost-alarm
1 Relay for fault (= active without power)
- ◆ Switching Voltage: 48 V DC / 32 V AC max.
- ◆ Switching current: 250 mA max. (resistive load)
- ◆ Input: 1 x external reset (5 V ... 36 V DC)

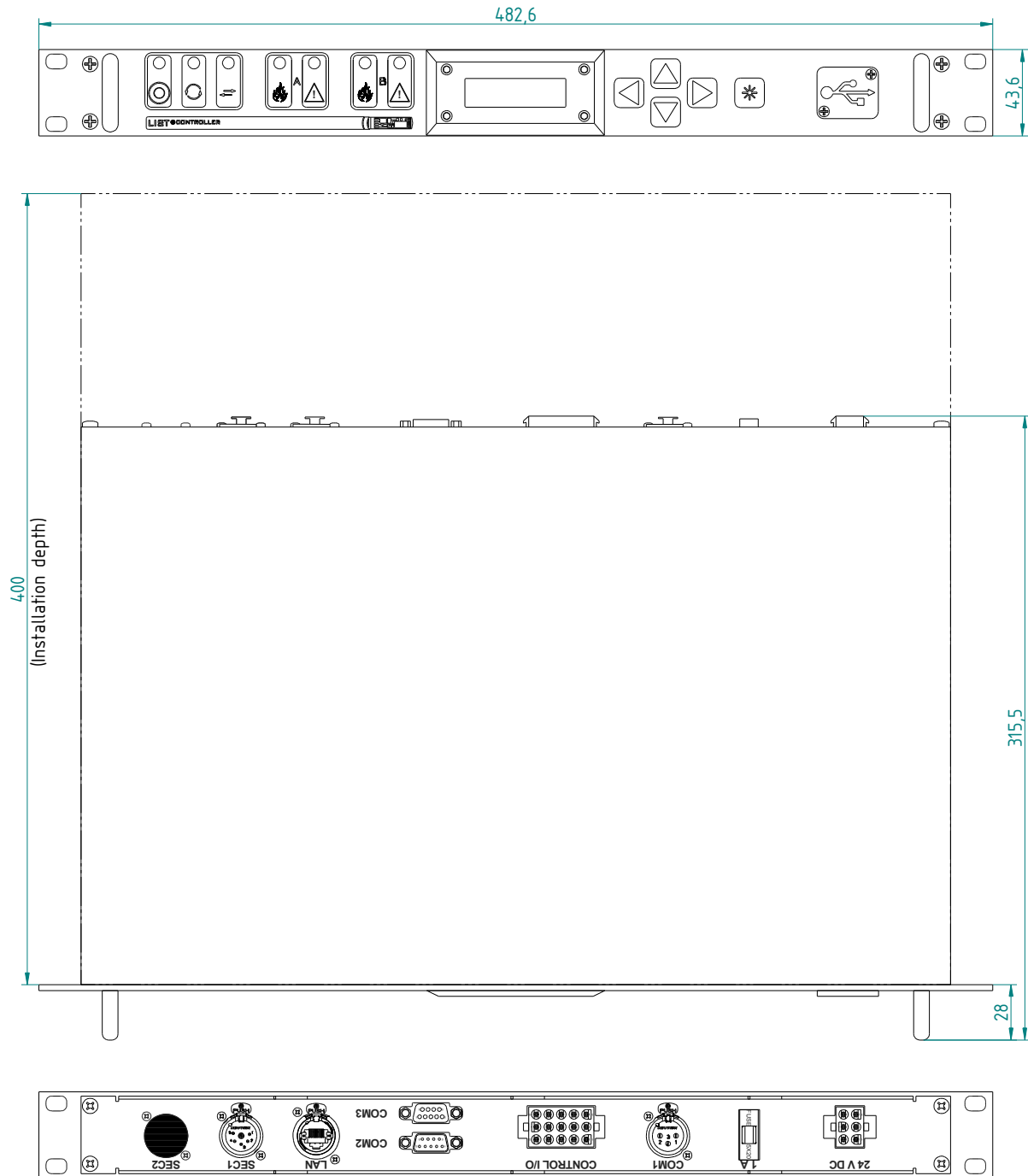
Ordering Information

- ◆ **LISTcontroller SEC** (Unit with one sensor cable connection) Art.-no.: **G00354**
- ◆ **LISTcontroller LB** (Unit with two sensor cable connections for **Loop-Back** or **RDT**-mode) Art.-no.: **G00355**
- ◆ **RDT**-function for **LISTcontroller LB** Art.-no.: **M00306**
- ◆ **I/P Interface and Protocol for LISTcontroller** (via RS232 with MODBUS (RTU), via Ethernet with MODBUS TCP, one license per system) Art.-no.: **M00314**
- ◆ **FCP Interface and Protocol for LISTcontroller** (via RS232 or TCP with protocol UGM (Bosch) or via RS232 with protocol EDP (ESSER), one license per system) Art.-no.: **M00419**
- ◆ **LISTcontroller I/P IEC 60870-5-104** (via Ethernet with protocol IEC 60870-5-104, one license per system) Art.-no.: **M00454**

Scope of Delivery

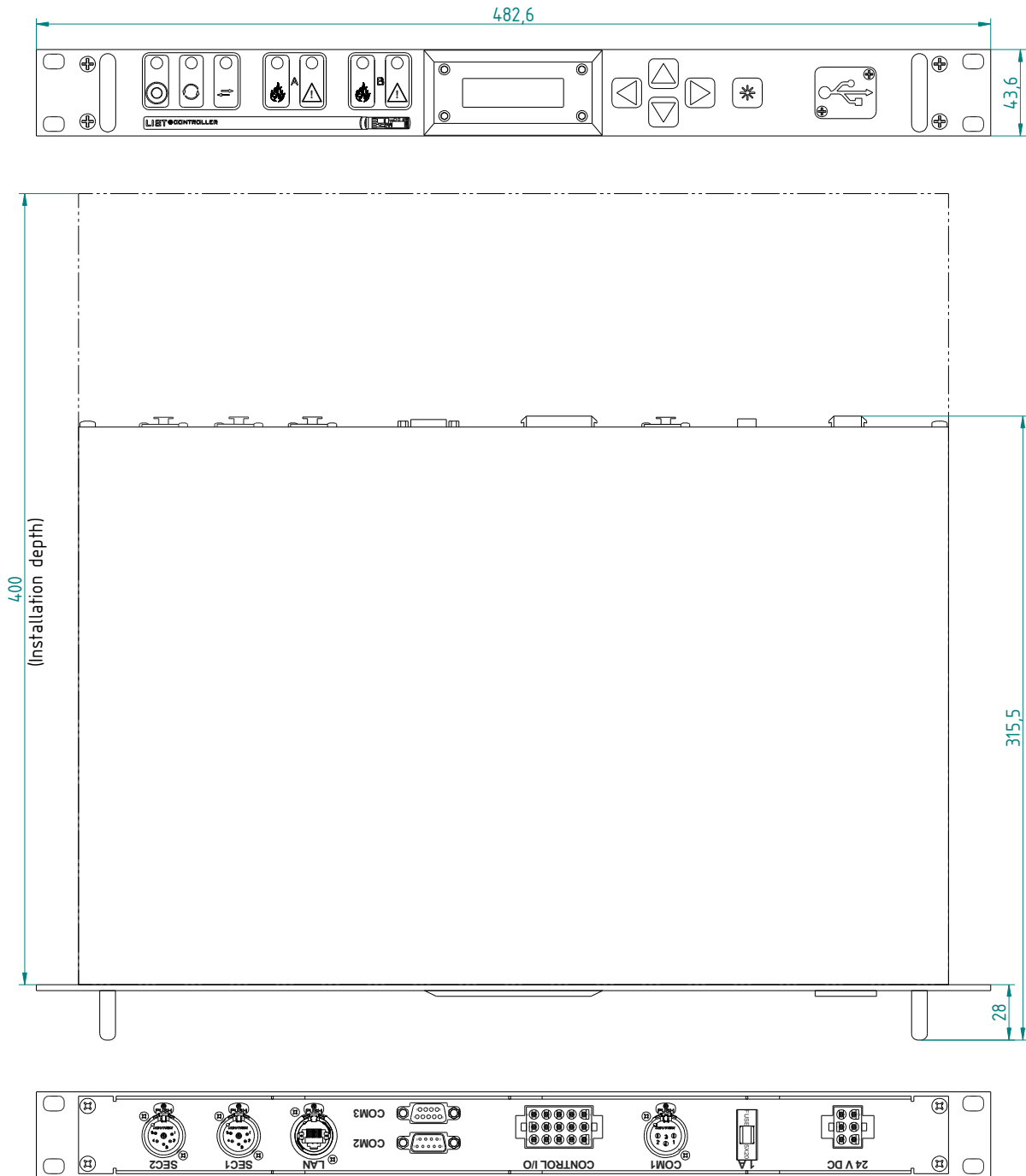
- ◆ LISTcontroller
- ◆ Pre-assembled 3 m connection cable lengths for sensor cable, Control I/O, COM1 and power supply
- ◆ LISTmemory **USB** flash drive

Dimensions LISTcontroller SEC



Width: 482,6 corresponding to 19"
Height: 43,6 corresponding to 1 U

Dimensions LISTcontroller LB



Width: 482,6 corresponding to 19"
Height: 43,6 corresponding to 1 U

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