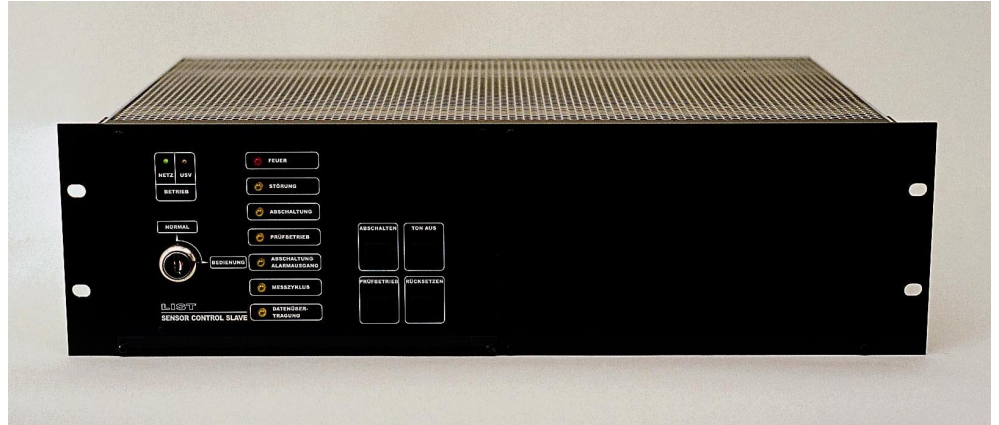


SCS 4010 Sensor Control Unit

GmbH

LISTEC
Lineare Sensor Technik



The sensor control unit **SCS 4010** (Sensor Control Slave) is an autonomously working part of a networked **LIST** system. It provides electric power to the **LIST** sensor cable, performs the cyclic addressing of the connected sensors, reads the measured temperature values and evaluates the data with reference to different criteria.

Should a given threshold be exceeded, an alarm is indicated via the various front panel indicators (LED's, audible alarm) and via a floating contact to a host computer or other transmission systems.

A simultaneous transfer of the alarms with all relevant data, i.e. slave number, measuring point number etc., to the sensor control master takes place via a TTY-interface

The area to be monitored by the **LIST** sensor cable can be divided into a maximum of 32 alarm sections. By using relay cards REL 3000 and setting software parameters, separate fire, fault, pre-alarm and minimum temperature alarm contacts can be activated for each section. The alarm thresholds for each alarm section, can be defined independently.

The **SCS 4010** is usually operated via the sensor control master. Most functions can be executed from the master. Diagnostics and maintenance is performed locally using a serial interface (RS232) attached to a terminal or a PC with the respective terminal program.

LISTEC GmbH also offers **LISTterm**, a software package allowing the comfortable setting of all system parameters.

DATA SHEET

Collective display (LED's) for

- Fire
- Fault
- Measuring points disabled
- Test
- Alarm outputs disabled
- Temperature measuring
- Data transmission

Audible alarm

The SCU gives an audible alarm while unacknowledged fire- or fault-alarms are present.

Function keys

Four keys on the front panel allow following functions:

- Switching off the temperature measurement
- Switching off the internal buzzer
- Selection of an internal test mode
- Acknowledgement of messages and resetting the system

Key switch

Switching from normal master-slave operation (remote control) to local operation (local mode). Operation now occurs via the front panel or via the serial maintenance interface.

Local mode interrupts the communication with the master.

Alarm criteria

Alarms are initiated when an absolute- or differential-alarm threshold is exceeded. A frost alarm can be generated if the temperature falls below a set threshold. All alarm thresholds can be program-med individually for each alarm section.

Fault recognition

Faults in the sensor cable, e.g. a defective measuring point, are generally recognised and shown within 10 seconds (fire detection). Faults in the sensor controller, e.g. mains failure, are stored in the message list and set fault alarms.

System specifications

Number of measuring points

max. 312 (fire detection)
max. 1024 (temp. measurement)

Sensor cable length

max. 2.500m, consisting of separate cable lengths

Connection cable length

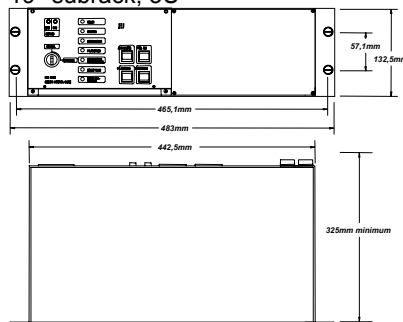
max. 500m distance from sensor cable to control unit

Operating temperature

0°C ... +40°C
(-20°C with restrictions)

Dimensions

19"-subrack, 3U



Weight

SCS 4010/24	5,2 kg
SCS 4010/230	5,2 kg
SCS 4010/230/4h	7,0 kg
SCS 4010/230/72h	10,4 kg

Power supply

SCS 4010/24	24 V – 32 VDC
SCS 4010/230	230 VAC
	+10% / -15%
	50 / 60 Hz
SCS 4010/110	110 VAC
	+10% / -15%
	50/60 Hz

Uninterruptable power supply

Two versions are available:

/4h for 4 hours and
/72h for 72 hours bridging time,
incorporated in the SCS 4010.

Power consumption

max. 3W, in alarm mode

Outputs

One floating change-over contact
each for collective-alarm and -fault:
Switching voltage: 150 VDC
125 VAC
Switching current: 1A max.
Switching power: 30 W / 60 VA

Input

Reset-input, galvanically separated,
for 5 V-signal

Interface

RS-232 Serial-interface for programming parameters and interrogation of system data, messages and temperature values. TTY interface using a **LIST** protocol for master-slave communication

Connections

Lock-connectors for all connections are on the rear panel. The D-sub serial interface socket is on the inside of the front panel.

Extent of delivery

- Operating manual
- Installations guidelines
- Description of commands and system messages
- Technical manual
- Two keys for the key switch
- Pre-fabricated cables (5 m), for the connection for all rear panel sockets to terminal blocks, are included

Ordering information

Series 4010

for max. 2.500m sensor cable, operation via master control unit, collective LED display, 4 function keys

SCS 4010/24
SCS 4010/110
SCS 4010/110/4h
SCS 4010/110/72h
SCS 4010/230
SCS 4010/230/4h
SCS 4010/230/72h

Options

See data sheet V6012