

SCM 4000 Master Control Unit

GmbH

LISTEC[®]

Linear Sensor Technik



The Master Control unit **SCM 4000** (Sensor Control Master) is the central unit in a networked **LIST** system, controlling a max. of 31 slave-units, **SCS 4010** (Sensor Control Slave) or **SCU 800**. The master, which is the central control point of all the connected slaves, accumulates all signals and messages generated by the **LIST** system and passes these on if required. All messages generated by the various slaves are stored chronologically in the master. The master-slave communication uses a protocol with fixed addressing and data transfer control. The master polls the slaves individually and therefore detects problems in the master-slave communication immediately.

The **SCM 4000** can either be operated via the keyboard situated on the front panel or via a serial interface (RS232) attached to a terminal or a PC / notebook with the respective terminal program.

LISTEC GmbH also offers **LISTterm**, a software package allowing the comfortable setting of all system parameters. For visualisation of system status, lists of messages and temperature values and for a graphic display of the temperature data, **LISTgraph II** is available.

The **SCM 4000** can be equipped with a telephone-modem for remote diagnostics on request.

DATA SHEET

Collective display (LED's) for

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

Clear text display

An illuminated, alphanumeric LC display consists of two lines with 40 characters each, for all system-messages in english.

The front panel and system messages can be implemented in various languages with certain technical limitations.

Audible alarm

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

Function keys

The SCM 4000 can be operated by 12 function keys:

- Display of the last registered message with it's consecutive no., slave no., alarm section no. and measuring point number.
- Paging backwards in the message list
- One-off display of the temperature at a single measuring point of a selected slave
- Message list print-out (only with optional printer interface)
- Print-out of the temperature list (only with optional printer interface)
- Switching off the audible alarm
- Display / change the differential threshold
- Display / change the absolute threshold
- Display / change the system time
- Selection of a test mode for display of system status and parameters
- Disable a measuring point or the alarm outputs
- Acknowledge of messages and reset of the system

Executed functions may affect the complete system, only the master or only the selected slave.

Slaves are selected via the decimal keypad.

Key switch

Switching from normal operation mode to operator level for acknowledge and reset functions.

System specifications

Number of slaves

max. 31 (RS-485) or 8 (TTY)

Network cables

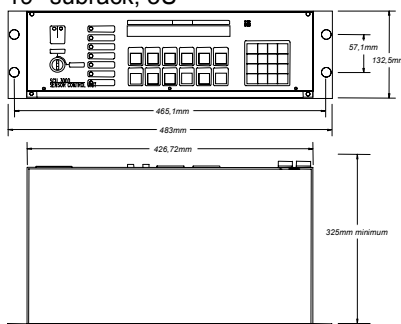
- 2 x 2 x 0,8 (screened) per slave
- Lengths exceeding 4000m need LD 4000 line drivers
- Converters for optical fibre are available

Operating temperature

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

Dimensions

19"-subrack, 3U



Weight

| | |
|------------------|---------|
| SCM 4000/24 | 5,2 kg |
| SCM 4000/230 | 5,3 kg |
| SCM 4000/230/4h | 7,1 kg |
| SCM 4000/230/72h | 10,5 kg |

Power supply

| | |
|--------------|---------------|
| SCM 4000/24 | 24 V – 32 VDC |
| SCM 4000/230 | 230 VAC |
| | +10% / -15% |
| | 50 / 60 Hz |
| SCM 4000/110 | 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 SCM 4000.

Power consumption

max. 3 W, 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: 30W / 60 VA

Input

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

Interface

RS-232 Serial-interface for programming parameters and interrogation of system data, messages and temperature values. Special protocols are available on request.

RS 485 or TTY interfaces using LIST protocol for master-slave communication.

Printer interface

Optional printer interface (CENTRONICS) to print out message and temperature lists

Modem

The modem can be used for remote diagnostics and interrogation of system data and parameters

Connections

Lock-connectors for all connections are on the rear 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 of rear panel sockets to terminal blocks. (CENTRONICS and RS-232 cables are not included)

Ordering information

Series 4000

Master control unit for a max. of 31 slave units, with alphanumeric LC-display, 2 x 40 characters, 12 function keys, numerical keyboard, serial interface.

SCM 4000/24
SCM 4000/110
SCM 4000/110/4h
SCM 4000/110/72h
SCM 4000/230
SCM 4000/230/4h
SCM 4000/230/72h

Options

See data sheet V6012.