ECAT Accessories
for CSM measurement modules
CSM ECAT Accessories

A wide range of accessories is available for CSM measurement modules and data loggers, such as the USB to CAN interface CSMcan, system and signal cables, plugs, sockets, mounting materials, antennas and memory cards.

This document provides an overview on all accessories available for CSM ECAT measurement modules. Further accessory datasheets are available for the product ranges CAN, data logger and exhaust measurement.

The system cables, for the engine compartment-mounted CSM MiniModules (CAN bus and EtherCAT®/Ethernet networking as well as power supply), are specifically made. These cables are designed for high interference resistance and the lowest possible internal resistance of the supply lines, as well as wide operating temperature ranges. The cables are flexible and highly chemical-resistant, including fuel and oil.

If you have custom wishes or requirements, do not hesitate to contact us.

Contents

CSM ECAT Accessories ........................................... 2
Cables and Plugs .................................................. 3
  ECAT Interface Cables ........................................ 3
  ECAT Connection Cables .................................... 3
  Sensor Cables .................................................. 4
  HV Sensor Cables ............................................. 6
  CAN Connection Cable ...................................... 8
  Sync Cable ..................................................... 8
  Blind Plugs ..................................................... 8
Mounting Components ........................................... 9
  MiniModule Mounting Material ............................ 9
  Test Bench Module (TBM) Mounting Material ....... 9
  Sales Contacts Worldwide ................................ 10
ECAT Accessories

Cables and Plugs

ECAT Interface Cables

K420.1
IC, L1B 8p, RJ45 8p / B
Connection cable between ECAT socket/measurement module or XCP-Gateway and Ethernet interface of the PC, including 1 m supply line for power supply

Connectors
A Socket LEMO 1B 8-pole code L
B Plug RJ45 and banana plugs

<table>
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K405.1
CC, L1B 8p, L1B 8p
Connection cable between XCP-Gateway and Ethernet interface of ETAS ES600, ES592, ES593-D or ES595; supply line for power supply integrated in the cable; power supply of measurement chain via ETAS measurement module

Connectors
A Socket LEMO 1B 8-pole code L
B Plug LEMO 1B 8-pole code F

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ECAT Connection Cables

K400.1
CC, L1B 8p, L1B 8p
Connection cable for cascading EtherCAT®-based measurement modules

Connectors
A Socket LEMO 1B 8-pole code L
B Plug LEMO 1B 8-pole code A

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Sensor Cables

**K642**
SC, L1B 8p, open, TR
Cable between signal input/measurement module and sensor; programmable TEDS chip integrated in the cable

**Connectors**
A Plug LEMO 1B 8-pole code G
B Open cable end

<table>
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**K643**
SC, L1B 8p, B, TR
Cable between signal input/measurement module and sensor; programmable TEDS chip integrated in the cable

**Connectors**
A Plug LEMO 1B 8-pole code G
B Banana plugs and connectors

<table>
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**K645**
SC, L1B 8p, BNC, IEPE_U, TR
IEPE sensor cable with integrated TEDS chip for measuring IEPE sensors using AD4 OE100

**Connectors**
A Plug LEMO 1B 8-pole code G
B Socket BNC

<table>
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### K650
**SC, L1B 8p, BNC, TR**
Sensor cable with integrated TEDS chip for measuring sensors with BNC (female) connector

**Connectors**
- **A** Plug LEMO 1B 8-pole code G
- **B** Plug BNC

| ART1420320 | K650-0120 | Length: 1.2 m |

### K662
**EC, L1B 8p, L1B 8p**
Sensor extension cable

**Connectors**
- **A** Plug LEMO 1B 8-pole code G
- **B** Connector LEMO 1B 8-pole code G

| ART1430400 | K662-0300 | Length: 3 m |

### K356
**SC, L1B 8p, open, 1/4, TEDS**
Quarter bridge completion cable (120/350 Ohm) in 3-wire connection with preconfigured TEDS

**Connectors**
- **A** Plug LEMO 1B 8-pole code G
- **B** Open cable end

| ART1420102 | K356-0200 /120 | Length: 2 m |
| ART1420101 | K356-0200 /350 | Length: 2 m |
### K901
SC, R2P 8p, open
Connection cable between an HV analog measurement module and four sensors (without sensor supply) with measurement voltages up to 90 V; shielding per channel for suppressing interferences

**Connectors**
A Multi-connector LEMO Redel 2P 8-pole code B
B 4 × open cable end, 2 wires + shield each

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<td>ART1423801</td>
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### K903
SC, R2P 8p, open
Single channel connection cable between an HV analog measurement module and four sensors (without sensor supply) with measurement voltages up to 90 V; shielding per channel for suppressing interferences

**Connectors**
A Multi-connector LEMO Redel 2P 8-pole code B
B 4 × open cable end, 2 wires + shield each

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### K910
SC, R2P 8p, open
Connection cable between an HV analog measurement module and four sensors (without sensor supply) with measurement voltages up to 1,000 V; shielding per channel for suppressing interferences

**Connectors**
A Multi-connector LEMO Redel 2P 8-pole code D
B 4 × open cable end, 2 wires + shield each

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K913
SC, R2P 8p, open
Single channel connection cable between an HV analog measurement module and four sensors (without sensor supply) with measurement voltages up to 1,000 V; shielding per channel for suppressing interferences

Connectors
A Multi-connector LEMO Redel 2P 8-pole code D
B 4 × open cable end, 2 wires + shield each

ART1423706 K913-0200 Length: 2 m

K960
SC, R2P 8p, open
Connection cable between an HV IEPE3 FL1000 measurement module and an IEPE sensor (triaxial, uniaxial)

Connectors
A Multi-connector LEMO Redel 2P 8-pole code C
B Open cable end, 4 wires and shield

ART1424000 K960-0200 Length: 2 m
CAN Connection Cable

K70
CC, L0B 5p, L0B 5p
Connection cable for connecting CAN-based measurement modules to an XCP-Gateway

**Connectors**

<table>
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Sync Cable

K665
CC, L0B 2p, Bi 712 3p

**Connectors**

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<tr>
<td>B</td>
<td>Plug</td>
<td>Binder 712</td>
<td>3-pole</td>
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| ART1403000 | K665-0200 | Length: 2 m |

Blind Plugs

K69
CAN Protection Plug L0B
Blind plug LEMO 0B, code G for protecting CAN input connectors

| ART1030500 | Protection Plug |

K68
Protection Plug L1B
Blind plug LEMO 1B, code G for protecting signal input connectors

| ART1030600 | Protection Plug |

Protection Plug
LEMO 1B Code A
Blind plug LEMO 1B, code A for protecting the socket ECAT OUT

| ART1030601 | Protection Plug |
Mounting Components

MiniModule Mounting Material

Mounting Angle SCL female
Mounting angle SCL (female) for mounting MiniModules in Slide Case Large (SCL) housings
ART0201548 Mounting Angle SCL female

Mounting Angle SCL male
Mounting angle SCL (male) for mounting MiniModules in Slide Case Large (SCL) housings
ART0201547 Mounting Angle SCL male

Adapter Plate Slide Case
Adapter plate SCL (female) on SCS (male) for connecting differently-sized MiniModules in Slide Case housings
ART0201541 Adapter Plate Slide Case

Adapter Plate Slide Case
Adapter plate SCL (male) on SCS (female) for connecting differently-sized MiniModules in Slide Case housings
ART0201540 Adapter Plate Slide Case

Test Bench Module (TBM) Mounting Material

19” Mounting Frame
19” frame for mounting 19” test bench modules
Height: 3 U (approx. 133 mm)
ART1340100 3 U × 24 HP approx. 133 mm × 122 mm
ART1340101 3 U × 60 HP approx. 133 mm × 305 mm
ART1340102 3 U × 84 HP approx. 133 mm × 427 mm
ART1340103 3 U × 95 HP approx. 133 mm × 483 mm

19” Mounting Angle
Mounting angle kit for mounting two 19” mounting frames above one another. This allows the vertical arrangement of two 19” mounting frames.
Height: 6 U (approx. 266 mm)
ART1340201 6 U approx. 266 mm
Service & Support

Do you have specific questions or technical suggestions for the optimal use of the CSM measurement technology? Feel free to contact us, our Service & Support is at your disposal.

Take advantage of our telephone hotline:

**+49 711 - 77 964-444**

Or contact us over our website: [www.csm.de](http://www.csm.de) and look for the heading »Support«.
About Us

CSM is a leading and innovative manufacturer of mobile measurement equipment and data acquisition systems. For over 35 years, we set technological standards in the field of measurement technology.

Our products are successfully and reliably in use worldwide, in the case of virtually all known manufacturers of automobiles and commercial vehicles as well as their suppliers and service providers.

Permanent innovation in conjunction with long-term satisfied customers constitute our guarantee for success, also in the future. We constantly address new challenges, such as the need for high-voltage-safe as well as synchronous high-speed measurement technology for the test and trial of electric and hybrid vehicles.

The close cooperation with Vector Informatik allows us now to offer complete solutions consisting of hardware and software from one source, which is an ideal addition to our measurement technology product range.

Products and Data: All Information at a Glance

Find all information on CSM measurement modules and data loggers on our website www.csm.de. Make use of our solutions for the development and testing of cars, construction and agricultural machinery, cranes, commercial vehicles, trains, aircraft, boats, wind turbines, etc.

- Product portfolio - overview
- Examples of application
- The latest CSM software versions available as downloads
- Fast access to all datasheets and product information

www.csm.de