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.

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Cables and Plugs

ECAT Interface Cables

**K420.1**
IC, L1B 8p, RJ45 8p / B
Connection cable between ECAT socket/measurement module or XCP-Gateway Basic or pro 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>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Length</th>
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<tbody>
<tr>
<td>ART1100205</td>
<td>K420.1-0100</td>
<td>1 m</td>
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<td>K420.1-0250</td>
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<tr>
<td>ART1100201</td>
<td>K420.1-1000</td>
<td>10 m</td>
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**K405.1**
CC, L1B 8p, L1B 8p
Connection cable between XCP-Gateway Basic or pro 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

<table>
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<td>ART1401032</td>
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**K425**
IC, L1B 8p, RJ45 8p
Connection cable between XCP-Gateway 4S pro and Ethernet interface of the PC

**Connectors**
A Socket LEMO 1B 8-pole code J  
B Plug RJ45

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Length</th>
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<tr>
<td>ART1412502</td>
<td>K425-0250</td>
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Power Supply Cables

**K480**
PC, L0B 5p, B
Power supply cable for XCP-Gateway 4S pro

**Connectors**
A Socket LEMO 0B 5-pole code J  
B banana plugs

<table>
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<th>Part Number</th>
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<th>Length</th>
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</table>
ECAT Accessories ▶ ECAT Connection Cables

**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

<table>
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<th>Length</th>
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<td>ART0202404</td>
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<tr>
<td>ART0202405</td>
<td>5 m</td>
</tr>
<tr>
<td>ART1401007</td>
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**K410.1**
CC, L1B 8p, L1B 8p / B
Connection cable for cascading EtherCAT®-based measurement modules, including power supply line for intermediate power supply

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

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<td>ART1401021</td>
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**Sensor Cables**

**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

<table>
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<tr>
<td>ART1420101</td>
<td>2 m</td>
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**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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<td>ART1420115</td>
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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

| ART1420500 | K643-0120 | Length: 1.2 m |
| ART1420501 | K643-0500 | Length: 5 m |

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

| ART1420310 | K645-0050 | Length: 0.5 m |

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 |
ECAT Accessories ▶ HV Sensor Cables

**K902**
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

| ART1423803 | K902-200 | Length: 2 m |
| ART1423804 | K902-300 | Length: 3 m |

**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

| ART1423806 | K903-0200 | Length: 2 m |

**K912**
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

| ART1423703 | K912-0200 | Length: 2 m |
| ART1423704 | K912-0300 | Length: 3 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 |

www.csm.de
**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

<table>
<thead>
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**K980**
SC, R2P 8p, open, TR
Connection cable between an HV STG measurement module and DMS full or half bridge programmable TEDS chip integrated

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

<table>
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<tr>
<td>ART1424201</td>
<td>K980-0300</td>
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**CAN Connection Cable**

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

**Connectors**
A Plug LEMO 0B 5-pole code G  
B Plug LEMO 0B 5-pole code G

<table>
<thead>
<tr>
<th>Part Number</th>
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<tr>
<td>ART0201070</td>
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<td>ART0201054</td>
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<td>ART1040100</td>
<td>K70-2000</td>
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**Sync Cable**

**K665**
CC, L0B 2p, Bi 712 3p

**Connectors**
A Plug LEMO 0B 2-pole code G  
B Plug Binder 712 3-pole

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Length</th>
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<tbody>
<tr>
<td>ART1403000</td>
<td>K665-0200</td>
<td>2 m</td>
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</table>
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 |

Antenna

GPS Magnetic Antenna
SMA
GPS antenna for XCP-Gateway 4S pro with integrated magnet for simple and fast mounting

| Frequency | 1575.42 MHz, circularly polarised clockwise |
| Power Supply | 2.7 - 5 V典型的 25 mA / max. 30 mA |
| Connector | SMA plug |
| Dimensions (Ø × h) | approx. 68 × 14 mm |
| Operating temperature range | -40 °C to +85 °C |

| ART0650001 | Length: 3 m |
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)

<table>
<thead>
<tr>
<th>Code</th>
<th>Height</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART1340100</td>
<td>3 U</td>
<td>133 mm × 24 HP</td>
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<tr>
<td>ART1340101</td>
<td>3 U</td>
<td>133 mm × 60 HP</td>
</tr>
<tr>
<td>ART1340102</td>
<td>3 U</td>
<td>133 mm × 84 HP</td>
</tr>
<tr>
<td>ART1340103</td>
<td>3 U</td>
<td>133 mm × 95 HP</td>
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**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)

<table>
<thead>
<tr>
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<th>Dimensions</th>
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<tbody>
<tr>
<td>ART1340201</td>
<td>6 U</td>
<td>approx. 266 mm</td>
</tr>
</tbody>
</table>
Sales Contacts Worldwide

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Our sales partners guarantee worldwide availability.
The contact details can be found on our website on the page »Contact«.

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 via our website: 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 have set the technological standards in the field of measurement and data acquisition.

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

Our present and future success is built upon continuous innovation in partnership with our long-term satisfied customers. 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.

Our close cooperation with Vector Informatik allows us to offer complete solutions consisting of hardware and software from one source, which is an ideal complement 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

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