LambdaCANc Accessories
for exhaust gas measurement at CSM
LambdaCANc Accessories

For the CSM product LambdaCANc you can choose from a wide range of accessories such as cables, sensors and DashCANc CAN displays.

The LambdaCANc is a compact CAN measurement module for the connection of numerous Bosch and NTK broadband lambda sensors for the acquisition of lambda and O₂. It is supplemented by the CSM OEM display variants DashCANc and DashCANc+, which enable a direct display of the currently measured values during the test drive. The displays are compatible with other ECM measurement modules.

The exhaust gas measurement modules from ECM are the ideal complement to the CAN and EtherCAT® measurement modules from CSM. They have the same environmental specifications as the CSM MiniModules.

CSM distributes the ECM products and provides support in Germany, France, Italy, Austria and Switzerland. The LambdaCANc and the DashCANc are CSM products, which are distributed worldwide by CSM.

In this brochure you will find an overview of the available accessories for LambdaCANc modules at CSM. For the topics CAN, ECAT and data logger further accessory brochures are available.

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### Connection Cable

**K70**
CC, LOB 5p, LOB 5p
Connection cable for cascading CAN-based measurement modules

**Connectors**

<table>
<thead>
<tr>
<th>A Plug</th>
<th>LEMO 0B</th>
<th>5-pole</th>
<th>code G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug</td>
<td>LOB 5p</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>LEMO 0B</td>
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<td></td>
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<tr>
<td>ART0201070</td>
<td>K70-0025</td>
<td>Length: 0.25 m</td>
<td></td>
</tr>
<tr>
<td>ART0201054</td>
<td>K70-0050</td>
<td>Length: 0.5 m</td>
<td></td>
</tr>
<tr>
<td>ART0201055</td>
<td>K70-0100</td>
<td>Length: 1 m</td>
<td></td>
</tr>
<tr>
<td>ART0201056</td>
<td>K70-0200</td>
<td>Length: 2 m</td>
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<tr>
<td>ART0201052</td>
<td>K70-0300</td>
<td>Length: 3 m</td>
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<tr>
<td>ART0201057</td>
<td>K70-0500</td>
<td>Length: 5 m</td>
<td></td>
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<tr>
<td>ART0201058</td>
<td>K70-1000</td>
<td>Length: 10 m</td>
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<tr>
<td>ART1040100</td>
<td>K70-2000</td>
<td>Length: 20 m</td>
<td></td>
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</tbody>
</table>

### Interface Cable

**K176**
IC, LOB 5p, DS 9p / B, R
CAN interface connection cable including connector for power supply and integrated 120 Ω resistor

**Connectors**

<table>
<thead>
<tr>
<th>A Plug</th>
<th>LEMO 0B</th>
<th>5-pole</th>
<th>code G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug</td>
<td>LOB 5p</td>
<td></td>
<td></td>
</tr>
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<td>LEM0 0B</td>
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<tr>
<td>ART1050101</td>
<td>K176-0060</td>
<td>Length: 0.6 m</td>
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<tr>
<td>ART1050102</td>
<td>K176-0250</td>
<td>Length: 2.5 m</td>
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<tr>
<td>ART1050103</td>
<td>K167-0500</td>
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<td></td>
</tr>
<tr>
<td>ART1050104</td>
<td>K167-1000</td>
<td>Length: 10 m</td>
<td></td>
</tr>
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LambdaCANc Accessories  ▶  Power Supply Cable

K191
IC, LOB 5p, L1B 8p / B, R
CAN interface connection cable ETAS ES690, ES590/91 and ES592/93-D/95 including connector for power supply and integrated 120 Ω resistor

Connectors
A  Plug  LEMO 0B  5-pole  code G
B  Plug  LEMO 1B  8-pole  code C
C  Banana plug

| ART1050108 | K191-0060 | Length: 0.6 m |
| ART1050109 | K191-0250 | Length: 2.5 m |
| ART1050110 | K191-0500 | Length: 5 m |
| ART1050111 | K191-1000 | Length: 10 m |

K74
CAN termination plug 120 Ω

Connectors
A  Plug  LEMO 0B  5-pole  code G

| ART0201050 |

Power Supply Cable

K250
PC, L1B 2p, B
ECM power supply cable for LambdaCANc

Connectors
A  Plug  LEMO 1B  2-pole  code J
B  Banana plug

| ART0250770 | K250-0200 | Length: 2 m |
| ART0250771 | K250-0300 | Length: 3 m |
| ART0250772 | K250-0500 | Length: 5 m |

Sensor Cables

ECM Cable Y
SC, DE 12p, DE 12p, DE 4p
Y cable for connecting sensor and pressure compensation to an ECM device

Connectors
A  Plug  DEUTSCH  12-pole
B  Socket  DEUTSCH  12-pole
C  Socket  DEUTSCH  4-pole

| ART0250806 | Length: 0.2 m |
### Probe Cable LSU4.2
SC, DE 12p, BO 6p
ECM probe cable for Bosch LSU4.2 Lambda sensors, cable colour red

**Connectors**

<table>
<thead>
<tr>
<th></th>
<th>Plug</th>
<th>DEUTSCH</th>
<th>12-pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Bosch</td>
<td>6-pole</td>
<td>(2.8 mm)</td>
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<table>
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<tr>
<th></th>
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<th>Length:</th>
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<td>ART1180402</td>
<td>Length:</td>
<td>0.3 m</td>
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<tr>
<td>ART1180403</td>
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<td>2 m</td>
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</tbody>
</table>

### Probe Cable LSU4.9
SC, DE 12p, BO 6p
ECM probe cable for Bosch LSU4.9 Lambda sensors, cable colour blue

**Connectors**

<table>
<thead>
<tr>
<th></th>
<th>Plug</th>
<th>DEUTSCH</th>
<th>12-pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Bosch</td>
<td>6-pole</td>
<td>(1.5 mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th></th>
<th>Length:</th>
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<td>ART1180501</td>
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<td>ART1180503</td>
<td>Length:</td>
<td>1 m</td>
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</tr>
<tr>
<td>ART1180502</td>
<td>Length:</td>
<td>2 m</td>
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</tr>
</tbody>
</table>

### ECM Boss and Plug 18mm Steel / Al
ECM welded socket (steel/aluminium) for sensor installation, threaded nipple 18 mm × 1.5 mm

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART0250811</td>
<td>steel</td>
<td></td>
</tr>
<tr>
<td>ART0250812</td>
<td>aluminium</td>
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</table>
# Extension Cables

**ECM Cable Extension**  
EC, DE 4p, DE 4p  
Extension cable between ECM LambdaCANc or NOxCANx and pressure sensor  

<table>
<thead>
<tr>
<th>Connectors</th>
<th>Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Plug</td>
<td>DEUTSCH 4-pole</td>
<td>ART0250745 1 m</td>
</tr>
<tr>
<td>B Socket</td>
<td>DEUTSCH 4-pole</td>
<td>ART0250746 2 m</td>
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</tbody>
</table>

**ECM Cable Extension**  
EC, DE 12p, DE 12p  
Extension cable between ECM LambdaCANc/NOxCANx and Lambda/NOx sensor, cable exposed  

<table>
<thead>
<tr>
<th>Connectors</th>
<th>Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Plug</td>
<td>DEUTSCH 12-pole</td>
<td>ART0250741 1 m</td>
</tr>
<tr>
<td>B Socket</td>
<td>DEUTSCH 12-pole</td>
<td>ART0250742 2 m</td>
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<tr>
<td></td>
<td></td>
<td>ART5211102 3 m</td>
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</table>

**ECM Cable Extension**  
EC, DE 12p, DE 12p  
Extension Cable between LambdaCANc or NOxCANx and Lambda- or NOx sensor, cable coated  

<table>
<thead>
<tr>
<th>Connectors</th>
<th>Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Plug</td>
<td>DEUTSCH 12-pole</td>
<td>ART5211101 5 m</td>
</tr>
<tr>
<td>B Socket</td>
<td>DEUTSCH 12-pole</td>
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</table>
 Lambda CANc Accessories > Lambda Sensors

Sensors

**Lambda Sensors**

**ECM Sensor LSU4.2**
Lambda sensor Bosch LSU4.2 for direct connection to Lambda CANc, thread 18 mm × 1.5 mm

**Connectors**
- A Socket  DEUTSCH  12-pole
- B Sensor  LSU 4.2

ART0250734 Length: 0.62 m

**ECM Sensor LSU4.9**
Lambda sensor Bosch LSU4.9 for direct connection to Lambda CANc, thread 18 mm × 1.5 mm

**Connectors**
- A Socket  DEUTSCH  12-pole
- B Sensor  LSU 4.9

ART0250731 Length: 0.62 m

**Bosch Sensor LSU4.2**
Serial sensor Bosch LSU4.2 for connection via adapter cable

**Connectors**
- A Plug  Bosch  6-pole
- B Sensor  Bosch

ART1180701 Length: 1.5 m
Bosch Sensor LSU4.9
Serial sensor Bosch LSU4.9 for connection via adapter cable

Connectors
A Plug Bosch 6-pole
B Sensor Bosch

ART1180700 Length: 0.6 m

ECM Sensor NTK
Lambda sensor for direct connection to LambdaCANc

Connectors
A Plug DEUTSCH 12-pole
B Sensor NTK

ART0250735 4 mA Length: 0.4 m
ART0250736 6 mA Length: 0.4 m

Pressure Compensation

ECM KIT Pressure Compensation
Consisting of:
1x ECM Pressure Sensor
1x ECM Cable Y
1x ECM Cable Extension
1x ECM Pressure Line Assembly

ART0251250
ECM Pressure Line Assembly
Lagging extension for pressure sensor for thermal and mechanical decoupling

**Connectors**
- A Pressure port 6 mm Swagelok
- B Thread 1/4” ISO metric

ART0250805 Length: 0.48 m

Pressure Sensors

ECM Pressure Sensor
Pressure Sensor for ECM device, pressure range 0 to 689 kPa; -40 °C to +125 °C operating temperature range

**Connectors**
- A Plug DEUTSCH 4-pole
- B Pressure connection 6 mm Swagelok

ART5210400 Length: 0.7 m

Displays

ECM DashCANc

ECM DashCANc Display
L0B 5p
Display for LambdaCANc, NOxCANx and NH3CAN

<table>
<thead>
<tr>
<th>Temperature range</th>
<th>-40 °C to +85 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection class</td>
<td>IP52</td>
</tr>
</tbody>
</table>

ART0250320

ECM DashCANc+ Display
L0B 5p, BNC
Display for LambdaCANc, NOxCANx and NH3CAN with 2 configurable analog outputs

<table>
<thead>
<tr>
<th>Voltage output</th>
<th>0 V to 5 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-40 °C to +85 °C</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP52</td>
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ART5210600
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Phone: +33 450-95 86 44
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Sweden
Slovakia
Czech Republic
Turkey

Asia
China
India
Japan
Korea

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 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