

# Sensorelectronics

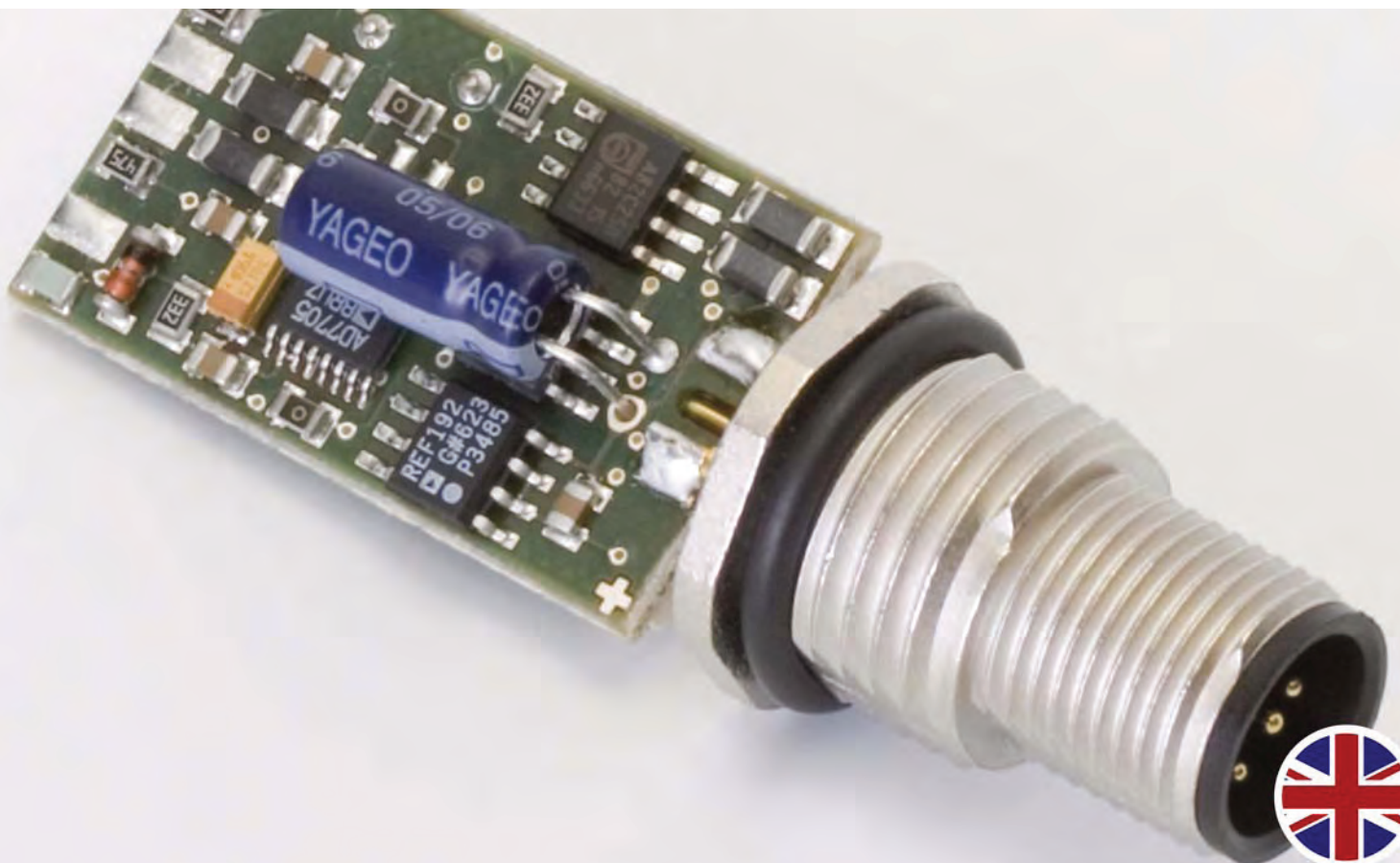
**CANopen**<sup>®</sup>

**CAN**  
connected

SAE J1939



**MicroControl**  
Systemhaus für Automatisierung





## Sensorelectronics

**CANopen**®

**CAN**  
connected

SAE J1939



The new concept of easy to use electronic supplies the link between analogue sensors and digital CAN networks. Highly efficient electronics and versatile functionality allows to connect almost any kind of sensor to the  $\mu$ CAN modules.

The modules are equipped with a highspeed CAN interface supporting CAN 2.0A and CAN 2.0B. Higher layer protocols like CANopen, SAE J1939 and many customer specific protocols are also available.

### Size

The modules are available in different sizes and shapes. The hardware can be used in a sensor housing or sealed as cable transmitter. The cable transmitter is complete pluggable and can be fixed with a clamp.

### Mounting

When fit into a sensor housing, electronic and sensor can be seen as a unit. Therefore the accuracy will rapidly increase since electronic and sensor can be calibrated together.

	$\mu$ CAN.1.ai-Sensor	$\mu$ CAN.1.ti-Sensor	$\mu$ CAN.1.sg-Sensor
Function	Analogue In	Temperature In	Strain gauge
I/O per module	1	1	1
Signal Type	+/-10V DC 0(4)..20mA	Pt100 / Pt1000 Thermocouple	strain gauge / full bridge >300 Ohm
Accuracy	0,01% fsd	+/-0,1K	0,01% fsd
Resolution	16bit	16bit	16bit
Sample Rate	20ms	20ms	20ms
Supply Voltage	8 .. 40V DC	8 .. 40V DC	8 .. 40V DC
Working Temperature	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C

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### LSS

The modules do not contain any switches. Setting of bitrate and module address will be done by LSS (CANopen Layer Setting Services).

### LED

Status information and self-diagnosis is displayed via one LED during operation.

### Fitting

Signal and fieldbus chains are pluggable on the cable transmitter by use of M12-connectors. Customer specific solutions are also available.

### Robust

The robust stainless-steel housing allows the cable transmitter to be fitted directly to machines. Control cabinets and terminal boxes are no longer required.

### Sealed

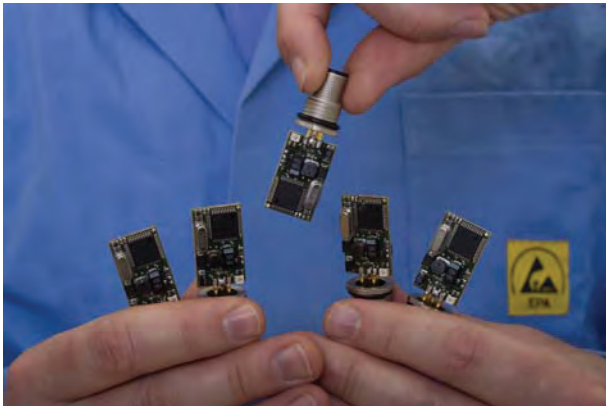
The cable transmitters meet the requirements for protection class IP67 and higher.

$\mu$ CAN.1.ai-TRS	$\mu$ CAN.1.ti-TRS	$\mu$ CAN.1.ti-TRS / Thermo	$\mu$ CAN.1.sg-TRS
Analogue In	Temperature In	Temperature In	Strain gauge
1	1	1	1
+/-10 V 0(4)..20mA	Pt100 / Pt1000	Thermocouple ( with Mini-Style thermo connectors )	strain gauge / full bridge >300 Ohm
0,01% fsd > 16 bit 20ms	+/-0,1K 16bit 20ms	+/-0,2K 16bit 20ms	0,01% fsd 16bit 20ms
8 .. 40V DC -40°C .. +85°C	8 .. 40V DC -40°C .. +85°C	8 .. 40V DC -40°C .. +85°C	8 .. 40V DC -40°C .. +85°C



# MicroControl

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## Customer specific solutions

The  $\mu$ CAN family supplies sufficient performance for the majority of decentralised control and regulation tasks. As a leading manufacturer of CAN bus factory floor equipment, we feel that we also offer the most comprehensive suite of customer specific, cost sensitive solutions.

Test us !

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