



# Fieldmodules

**CANopen**<sup>®</sup>



SAE J1939



**MicroControl**  
Systemhaus für Automatisierung





## Fieldmodules

CANopen®

CAN  
connected

SAE J1939



Enabled by intelligent decentralised field devices the  $\mu$ CAN family leads to easy connection of distributed I/O signals. 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.

### DIP-switches

The use of several DIP-switches makes it easy to select module address and bitrate.

### Bus Termination

Termination of CAN bus is done by a switch which is available on all of the modules.



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### LEDs

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

### Fitting

Supply of signal and fieldbus chains is significantly simplified by use of screw sets and terminal blocks. Plug connectors and customer specific solutions are also available for maximum flexibility.

### Robust

Robust construction (die-cast aluminum) allows fieldbus modules to be fitted directly to machines. Control cabinets and terminal boxes are no longer required.

### Sealed

The modules meet the protection classes IP 66 and higher. They are fully casted and are thus ideally prepared for use in wet, dirty and dusty working environments.

	$\mu$ CAN.1.si-BOX	$\mu$ CAN.1.ai-BOX	$\mu$ CAN.1.ti-BOX	$\mu$ CAN.1.sg-BOX
Function	Seriell IO	Analogue In	Temperature In	Strain Gauge
I/O per module	1	1	1	1
Signal Type	RS-232 RS-485 RS-422	+/-10V DC 0..20mA -	Pt100 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 .. 60V DC	8 .. 60V DC	8 .. 60V DC	8 .. 60V DC
Working Temperature	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C

$\mu$ CAN.4.ai-BOX	$\mu$ CAN.4.ti-BOX	$\mu$ CAN.4.ao-BOX	$\mu$ CAN.8.dio-BOX	$\mu$ CAN.4.ci-BOX	$\mu$ CAN.8.PWM-BOX
Analogue In	Temperature In	Analogue Out	Digital In/Out	Counter In	PWM Out
4	4	4	8	4	8
+/-10 V 0(4)..20mA	Pt100 / Pt1000 Thermocouple	+/-10 V 0(4)..20mA	High Side IO Low Side IO	1Hz .. 500kHz SSI	High Side Low Side
0,01% fsd > 16 bit 5ms	0,1K / 0,5K > 16 bit 10ms	0,01% fsd > 16 bit 5ms	5..50V <1ms	+/-0,1Hz	5..50V
9 .. 36V DC -40°C .. +85°C	9 .. 36V DC -40°C .. +85°C	9 .. 36V DC -40°C .. +85°C	8 .. 50V DC -40°C .. +85°C	8 .. 50V DC -40°C .. +85°C	8 .. 50V DC -40°C .. +85°C



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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 !



Sales partners

