



F1-Series

CANopen®

CAN
connected

EtherCAT®

MicroControl
Systemhaus für Automatisierung



made
in
Germany





CANopen®

CAN
connected

EtherCAT®

Enabled by intelligent decentralised field devices the F1 family leads to easy connection of distributed I/O signals.

The modules are equipped either with a high-speed CAN interface or EtherCAT interface.

Highly efficient electronics and versatile functionality allows to connect almost any kind of sensor to the F1 modules.

Robust
Robust construction (die-cast aluminum) allows the F1 modules to be fitted directly to machines. Control cabinets and terminal boxes are no longer required.

Fitting
Supply of signal and fieldbus chains is significantly simplified by use of high quality plug connectors. Customer specific solutions are also available for maximum flexibility.



CAN
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.

EtherCAT
The new EtherCAT interface is the state of the art for measurement technology. The modules are equipped with the CoE standard.

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

Bus Termination / CAN
Termination of CAN bus is done by a termination plug.

	μCAN.4.ti-F1	μCAN.4.ti-F1	μCAN.4.ai-F1	μCAN.4.ai-F1
Interface	CAN	CAN	CAN	CAN
Function	RTD	Thermo	Analogue In	Analogue In
I/O per module	4	4	4	4
Signal Type	Pt100 ... Pt1000	thermocouple (misc.)	+/-10V +/-40V	0..20mA (4)..20mA
Accuracy	+/-0,05 K	+/-0,1K	0,01% fsd	0,01% fsd
Resolution	0,001 K	0,01 K	10 μV (22bit)	10 nA (22bit)
Sample Rate	1Hz .. 1kHz	1Hz .. 1kHz	1Hz .. 3kHz	1Hz .. 3kHz
Supply Voltage	9 .. 36V DC	9 .. 36V DC	9 .. 36V DC	9 .. 36V DC
Working Temperature	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C

	μNET.4.ti-F1	μNET.4.ti-F1	μNET.4.ai-F1	μNET.4.ai-F1
Interface	EtherCAT (CoE)	EtherCAT (CoE)	EtherCAT (CoE)	EtherCAT (CoE)
Function	RTD	Thermo	Analogue In	Analogue In
I/O per module	4	4	4	4
Signal Type	Pt100 ... Pt1000	thermocouple (misc.)	+/-10V +/-40V	0..20mA (4)..20mA
Accuracy	+/-0,05 K	+/-0,1K	0,01% fsd	0,01% fsd
Resolution	0,001 K	0,01 K	10 μV (22bit)	10 nA (22bit)
Sample Rate	1Hz .. 1kHz	1Hz .. 1kHz	1Hz .. 3kHz	1Hz .. 3kHz
Supply Voltage	9 .. 36V DC	9 .. 36V DC	9 .. 36V DC	9 .. 36V DC
Working Temperature	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C	-40°C .. +85°C



MicroControl

Systemhaus für Automatisierung



Customer specific solutions

The F1 series supplies sufficient performance for the majority of decentralised measurement tasks. As a leading manufacturer of CAN bus and EtherCAT measurement equipment, we feel that we also offer the most comprehensive suite of customer specific, cost sensitive solutions.

Test us !

Lindlaustraße 2 c
53842 Troisdorf
Germany

Tel.: +49 (0) 2241 256 59 - 0
Fax: +49 (0) 2241 256 59 - 11

info@microcontrol.net
www.microcontrol.net



sales partner

MicroControl
Systemhaus für Automatisierung