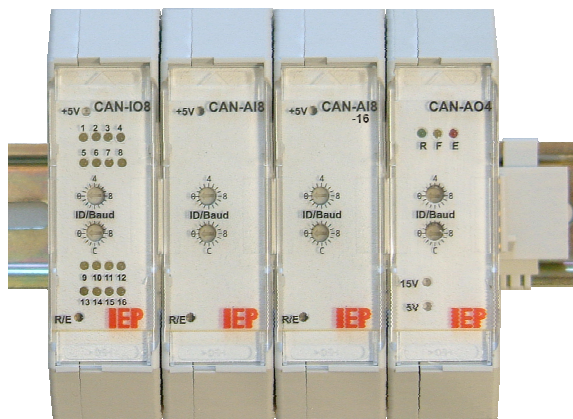# CAN- modules

Analog und digital modules for the CAN-Bus

The **CAN-xx** modules are a line of durable and inexpensive I/O building groups for industrial control. A clear and sensible CAN communication structure simplifies their deployment. Optionally, the modules are available with CANopen® support.

CAN-xx

Module

DIO8   8 highside outputs 24 V / 0.5 A with PWM 0%...100%, galvanically isolated, can drive even inductive loads.

8 isolated digital inputs 24V with edge counter mode.

AI8   8 differential analog inputs, resolution 10 bit, input ranges 0-10V, ±10V, 0/4-20mA, PT100 etc. The versatile input circuitry allows for easy adaption to different signal level requirements.

By an automatic sample mode, the actual samples as well as their floating averages can be read.

AI8-16   8 differential analog inputs, resolution 16-24 bit, input ranges 0-10V, ±10V, 0-20mA.

Accuracy and sample frequency are user configurable. The simultaneous conversion of two different input channels is possible.

AO4   4 analog ouputs; 12 Bit; 0-10V; ±10V; 0/4-20mA

Safety Reliability

All inputs and outputs of the **CAN-xx-modules** are galvanically isolated from the CAN-bus. The power for the bus interface comes either from the bus or from a separated module supply.

Digital I/Os are isolated, using a common supply, analog signals are referenced to a common ground.

A programmable Watchdog controls CAN-Bus activity. The watchdog triggers when a module is not addressed in time. If the watchdog triggers, the outputs are switched inactive and a monitoring LED is lit.

CAN-Bus

The **CAN-xx-modules** are supporting baud rates from 50 kB upto 1 MB. They use 2...16 successive identifier on the CAN-bus. Baudrate and base identifier are set by rotary hex coding switches.

The modules base addresses can be placed in different CAN-Open®-PDO-ranges. **CAN-xx-modules** can collaborate with CAN-Open® modules on the same bus, modules with CANOpen® firmware are available also.

The CAN-Bus is connected either by pluggable srew-clamp terminals or by the „bus-in-the-rail" – a 5 p bus in the DIN-rail.

Size and Supply

The **CAN-xx-modules** are delivered in a 85x90x22,5 mm housing for DIN-rail snap-on mounting. The CAN-bus and the power supply can be routed in the rail, so external wiring is minimised.

The **CAN-xx-modules** use a supply of 18...30 V_{DC}. The modules are protected from power supply polarity reversal; an EMV protection circuit assures troublefree operation in an industrial environment.

Special editions, even one offs, are possible at low cost, please contact us.