CANopen Sensors and I/O Modules

Process monitoring and automation: Precise mesaurement of ambient and process conditions with CANopen sensors

The CANopen communication protocol is ideally suited for embedded systems in process automation. In complex devices and systems in the automotive and transport sectors, as well as in mobile machines, stationary plants and test benches, sensors with CANopen interfaces enable the monitoring of important process conditions. The reasons for the versatile applications are the simple and flexible configuration options of this standardised embedded network. CANopen relieves integrators, for example, in the implementation of time-critical processes and bit timing by providing standardised communication objects. For these purposes, ZILA offers CANopen sensors for measuring pressure, air or media temperature as well as relative humidity in combination with temperature.

Modern control systems in industrial applications increasingly require a standardized bus system such as CAN bus. However, not all signals are available with dedicated CAN sensor probes. This is where input and output modules of the ZILA cIO series can help. These are a flexible and efficient option to convert incoming electrical signals into CAN bus.

robust sensor probes

easy & fast intgration

standardised output signal

EDS/DBC file available

CANopen®

TSR-CAN-03
media temperature

DS-CAN-01
pressure

ZILA cIO Series
input / output modules

KS-CAN-03
rel. humidity
temperature

TSL-CAN-03
ambient air
temperature

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CANopen Sensors and I/O Modules

Product feature	DS-CAN-01 pressure sensor	KS-CAN-03 climate sensor	TSR-CAN-03 media temperature	TSL-CAN-03 air temperature
Material	Stainless steel	probe: Aluminum cap: PTFE, Aluminum, Standard	Stainless steel	probe: Aluminum cap: PTFE, Aluminum, Standard
Measurand	absolute pressure gauge pressure	relative Humidity Temperature	Temperature	Temperature
Measuring ranges	2...4000 bar -1...2 bar	-40…80 °C 0…100 % rH	-40...80 °C -40...+150 °C (optional)	-40...80 °C
Mounting	screw-in sensor	wall/cable mount	screw-in sensor	wall/cable mount
Connectors (Standard)	electrical: M12 process: various	electrical: M12	electrical: M12 process: various	electrical: M12
Dimensions in mm	80x24	150x19	120x22 (standard)	150x19
Accuracy	0,5 % FS	± 0,5 K (5...+40 °C) ± 2 % (10...90 % rH)	± 0,3 K (-40...+80 °C)	± 0,3 K (10...+80 °C)
Operating Voltage	12...27 VDC ± 20%	10...48 VDC	12...27 VDC ± 20%	10...48 VDC
Operating temperature	-10...+80 °C	-40...+80 °C	-40...+80 °C	-40...+80 °C
Special features	use with all stainless steel compatible media	selectable protective cap	extended temperature range; other measuring tip length	selectable protective cap

I/O Module	Digital Inputs	Digital Outputs	Analog inputs	Analog outputs	PT100 PT1000	Features
cIO-CAN-50	2x 24 V	2x 24 V high side switching				Event counter, PWM
cIO-CAN-51		2x 24V				Full-Bridge-Drivers for DC motors, valves or similar loads
cIO-CAN-52				4x -10...+10V		
cIO-CAN-53				1x regulated current		drive proportional valves
cIO-CAN-55			4x 0...+10 V -10...+10V			Resolution: 16 Bit
cIO-CAN-56					max. 4 PT100/1000 (0,1 K Resolution)	Measuring range: -100°C...+500°C 2-wire-connection (4x) 3-wire-connection (2x) 4-wire-connection (1x)
cIO-CAN-57			4x (0) 4...20mA			Resolution: 16 Bit
cIO-CAN-58			2x 4...20mA			Resolution: 12 Bit
cIO-CAN-59	2x 24V	2x 24V high side switching				Compare-Counter
cIO-CAN-60				2x 0...20 mA		Resolution: 12 Bit

Subject to technical changes

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