

# CANopen IO modules for CAN bus data acquisition



Automotive - Marine - Industrial - Semiconductor - Pharmaceutical - Laboratory

## Features:

- Portable, Simple setup and easy handling
- CANopen connectivity
- 4TPDO, Dynamic PDO-Linking and Mapping, SDO server
- Life guarding, Node guarding, Heartbeat Producer
- Low-cost IO modules addition to existing PLC system
- IO modules used with the third party software via CANopen protocol.
- Interface with field devices to provide real-time data for SCADA / PLC / HMI
- LEDs on every modules for digital IO status, communication and power supply
- Different types of IO Modules AI, AO, DI, DO, RTD, Thermocouples are available
- Direct reading of temperature without scaling by using RTD and Thermocouple Modules Hot swap and auto configuration

W.i.T.D services

Handelsweg 6H

1785 AE Den Helder, The Netherlands

KvK: 37120693

Tel: +31-(0)223-707424

E-mail: [witd@waalamo.com](mailto:witd@waalamo.com)

Website: <http://witd.waalamo.com>



WITD services

[WITD@WAALAMO.COM](mailto:WITD@WAALAMO.COM)

**"Going green starts with measuring"**

**Also for your HMI's, data recorders, wireless communication and engineering advice.**

**CANopen IO modules**  
**Analogue output module CA6AOI/ CA6AOV**

Analogue outputs		8 (isolated in pairs)	
Current/Voltage	0-20mA		0-10V
Offset		N/A	
Resolution		16 bits	
Drift		100ppm/°C	
Accuracy		0.05% of span	
Load		20mA	

**Temperature module CA4RTD/ CA4TCS**

Input	4x RTD		4x thermocouple
Type	PT100/1000, Ni120/1000-DIN/1000-Landys&Gyr/0-400ohm/0-4000ohm		J, K, T, E, R, S, B, N
Connection	2,3 or 4 wire		2 wire
Resolution		0.1°C	
Samples		10ms - 60ms (selectable)	
Drift		50ppm/°C	
Accuracy	< 0.1°C balanced		Less than 1°C Typ. after 60 minutes

**Analogue input modules CA8AIIS/ CA8AIVS**

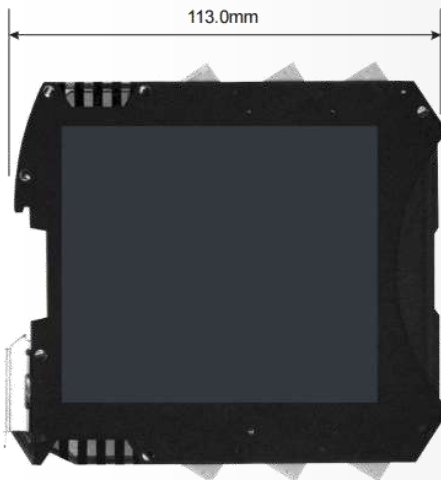
Input	8 (isolated in pairs)		8 (isolated in pairs)
Type	Current		Voltage
Current/Voltage/Therm	0-±20mA		0-±10V
Resolution		16 bit	
Sample rate		12ms - 100ms (selectable)	
Input protection	122 ohms		110 Kohms
Drift		50ppm/°C	
Accuracy		calibrate control	

**Digital modules CA6RO/CA16DO/CA16DI/CA6DIO**

Digital in/out	6 out	16 out	16 in	6 in & 6 out
In level	'-	'-	12 - 24 Vdc	12 - 24 Vdc
Out level	1A@220Vac /28Vdc	.5A/48Vdc		.5A/48Vdc
Pulse width/freq.	15msec	< 1ms filter OFF	100us/5kHz*	
# counters	'-	'-	32bit	32bit
Counter type	'-	'-	up	up
Watchdog		Node Guarding / Consumer Heartbeat		
Input filter	'-	'-	yes	yes

**CANopen IO general specifications**

Power supply	12-24Vdc (relay 24Vdc only)
Consumption	Up to 45mA @ 24Vdc depending on model (relay 71mA)
Isolation	1500Vrms between field and logic
Size	113.0x17.6x110.5mm
Mounting	DIN rail with chain option
Communication	Electrically isolated CANopen interface, compliant with ISO 11898 (node ID 0-127)
Baudrate	20k-1000k BPS, 8-N-1/2, 8-E/O-1
Status indication	LED for every channel, power and comms



**WITD services**

WITD@WAALAMO.COM

**"Going green starts with measuring"**

(Subject to misprints)

<http://wtd.waalamo.com>