DeviceNet Series Products

4-channel Analog Output Module of DeviceNet Slave

CE FC

CAN-2024D

Dimensions

77.5
99
107.0
15.0
32.3
Unit: mm
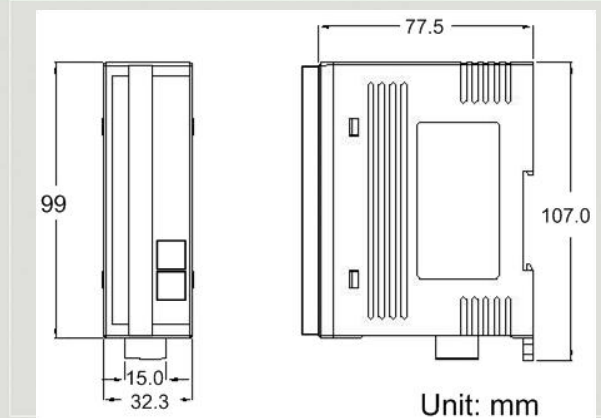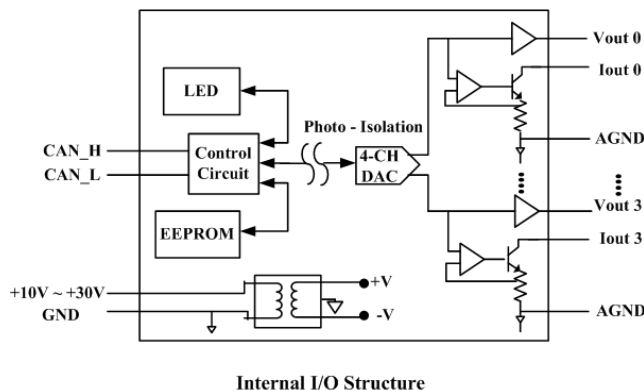
The CAN-2024D follows DeviceNet specification Volume I/II, Release 2.0. User can access the analog output status and set the configuration via DeviceNet EDS file. This module has 4-channel 14-bit analog output. By the DeviceNet masters of ICP DAS, you can quickly build a DeviceNet network to approach your requirements.

Features

- DeviceNet general I/O slave devices
- Comply with DeviceNet specification Volume I, Release 2.0 & Volume II, Release 2.0, Errata 5
- Group 2 Only Server (non UCMM-capable)
- Support Predefined Master/Slave Connection Set
- Connection supported:
    - 1 connection for Explicit Messaging
    - 1 connection for Polled I/O
    - 1 connection for Bit-Strobe I/O connection
- Support DeviceNet heartbeat and shutdown messages
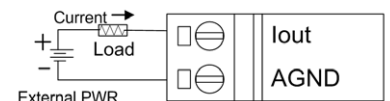- Provide EDS file for DeviceNet master interface

Internal I/O Structure

LED
CAN_H
CAN_L
Control Circuit
Photo - Isolation
4-CH DAC
EEPROM
+10V ~ +30V
GND
+V
-V
Vout 0
Iout 0
AGND
Vout 3
Iout 3
AGND

Internal I/O Structure

I/O Pin & Wire Connection

Terminal No.	Pin Assignment
01	Iout 0
02	AGND
03	Iout 1
04	AGND
05	Iout 2
06	AGND
07	Iout 3
08	AGND
09	Vout 0
10	AGND
11	Vout 1
12	AGND
13	Vout 2
14	AGND
15	Vout 3
16	AGND
17	N/A
18	N/A
19	N/A
20	N/A

Current Output Wiring

Current
Load
External PWR
Iout
AGND

Voltage Output Wiring

Vout
v
AGND
Load
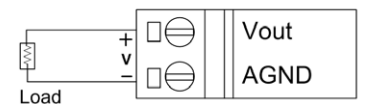
CAN Pin & Baud Rate Rotary

5-pin screw terminal block

5 : CAN_V+
4 : CAN_H
3 : CAN_Shield
2 : CAN_L
1 : CAN_GND

Baud rate rotary switch

Switch Value	Baud Rate
0	125 kbps
1	250 kbps
2	500 kbps

Hardware Specifications

CAN Interface	
DeviceNet Specification	Volume I, Release 2.0 & Volume II, Release 2.0, Errata 5
DeviceNet subscribe	Group 2 Only Server
Connection supported	1 connection for Explicit Messaging 1 connection for Polled I/O 1 connection for Bit-Strobe I/O
Node ID	0~63 selected by rotary switch
Baud Rate (bps)	125 kbps, 250 kbps, 500 kbps
Heartbeat/Shutdown message	Yes
Terminal Resistor	Switch for 120 Ω terminal resistor
Analog Output	
Channels	4
Output Type	$0 \sim +5\ V_{DC}$, $-5 \sim +5\ V_{DC}$, $0 \sim +10\ V_{DC}$. , $-10 \sim +10\ V_{DC}$, $0 \sim 20$ mA, $4 \sim 20$ mA.
Resolution	14-bit
ESD Protection	4 kV Contact for each channel
LED	
Round LED	PWR LED, NET LED, MOD LED
I/O LED	8 LEDs as Current and Voltage Output status , and 1 LED as terminal resister indicator
Power	
Input Range	Unregulated $+10 \sim +30\ V_{DC}$
Power Consumption	1.5 W
Mechanism	
Installation	DIN-Rail
Dimensions	32.3 mm x 99 mm x 77.5 mm (W x L x H)
Environment	
Operating Temp.	-25 ~ 75 ℃
Storage Temp.	-30 ~ 80 ℃
Humidity	10 ~ 90% RH, non-condensing

Applications
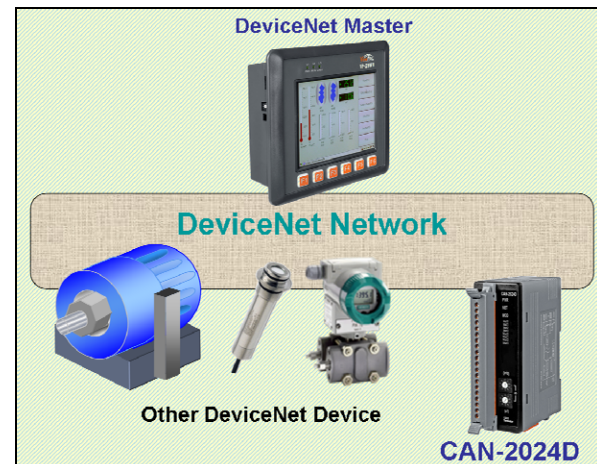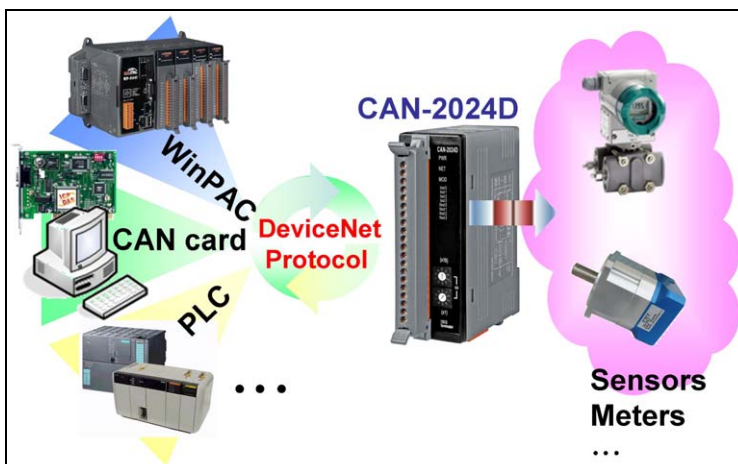
Ordering Information

CAN-2024D	DeviceNet slave module of 4-channel 14-bit Analog Output