

CTC08V Module

CANBUS MODULE WITH 8 ANALOG INPUTS FOR READING J AND K TYPE THERMOCOUPLES

CTC08V is a CanBus module with CanOpen protocol mountable on a standard DIN rail, which provides 8 inputs for Iron-Constantan thermocouples or Nickel Chrome-Alumel thermocouples.

The space required for installation is minimized by the vertical design of the module.

For each input 2 wires are available to connect the device directly to the module.

It is possible to detect the interruption of the connection to the thermocouple.

A sensor near the edge of the module, close to the input pins, allows cold junction compensation measuring of the temperature in the junction between thermocouple and tin.

6 groups of spring-cage connectors are provided:

1. One 4 points group, of which only 2 are used for 24 V power supply;
2. One group of 8 connectors grouped in 4 independent subgroups of 4 connectors. Each subgroup provides these connections;
3. One 8 points group for the CanBus line, connected in pairs with the following scheme:
 - left +24V_CAN
 - middle left GND_CAN
 - middle right CANH
 - right CANL
4. Four 4 points groups for thermocouple connections with two points per channel.



Technical specifications

Dimensions (H x W x D)	120x23x112 mm
Mounting	Standard DIN rail
Power supply	24 V (18 - 36 V)
Module power consumption	60 mA
Output channels	8
Thermocouple types	J e K
DAC resolution	12 bit
CanBus Boud Rate	125 kbps / 250 kbps / 500 kbps / 1 Mbps
Marking	CE
Operating temperature	0 - 55 °C
Storage temperature	-20 - 85 °C
Warehousing humidity	Max 95% non-condensing
CanOpen standard specifications	DS301
Protection marking	IP20