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CANopen Slave Device Voltage and Current Input

DAT 7015

- Field bus data acquisition
- CAN open protocol
- Baud rate and Node ID configurable by dip-switch
- Configurable input for Volt and mA
- LEDs of signalling for power supply and error status
- 3 ways Galvanic Isolation
- Connection by removable screw terminals
- CF/UKCA mark
- DIN rail mounting in compliance with EN-50022



GENERAL DESCRIPTION
The device DAT 7015 is able to acquire up to 4 voltage signals up to ± 10 V or current signals up to ± 20 mA. The data are transmitted by the CANopen protocol. By means of 16 bit converters, the device guarantees high accuracy and a stable measures both versus time and temperature. The configuration of the Node ID and bit rate is made by the setting of the dip-switches located on the rear of the device.

On the DAT7000 modules it is implemented the CANopen Protocol that is one of the most used standard communication protocol; it allows to interface the modules of DAT7000 series directly to the CAN Controllers that accept devices in compliance with the CiA DS 301 and CiA DS 401 standards. For communication setting, refer to the User manual.

The 2000 Vac galvanic isolation between inputs, power supply and data line eliminates the effects of all ground loops eventually existing and allows

the use of the device in heavy environmental conditions found in industrial applications.

The device is housed in a self-extinguishing plastic enclosure of 22.5 mm thickness, suitable for DIN rail mounting in compliance with the EN 50022

USER INSTRUCTIONS

Before to install the device, please read the "Installation Instruction" section.

Connect power supply, serial bus and analogue inputs as shown in the "Wiring" section.

The LEDs state depends on the working condition of the device: see the "Light Signalling" section to verify the device working state.

To simplify handling or replacing of the device, it is possible to remove the wired terminals even with the device powered.

TECHNICAL SPECIFICATIONS (Typical @ 25 °C and in the nominal conditions)

INPUT			CAN OPEN INTERFACE		GENERAL SPECIFICATIONS	
Input type Voltage	Min	Max	Device profile in compliance with the CiA DS 301 and CiA DS 401 standards.		Supply Voltage Current consumption Polarity inversion protection	10 30 Vdc 45 mA max on 60 Vdc max
Volt Current mA	- 10 V -20 mA	+10 V +20 mA	Data Transmission Baud rate Max. Distance	up to 1 Mbps in function of the Baud rate	ISOLATION (test time 1 I Power supply / Can bus Inputs / Power Supply Inputs / Can bus	minute) 2000 Vca, 50 Hz 2000 Vca, 50 Hz 2000 Vca, 50 Hz
Input Accuracy (1) Volt mA Input impedance Volt Current Thermal drift (1)	± 0.05 % f.s. ± 0.05 % f.s. ± 0.05 % f.s. edance $ >= 1 \ M\Omega $ $ \sim 22 \ \Omega $				ENVIRONMENTAL CONI Operative Temperature Storage Temperature Humidity (not condensed) Maximum Altitude Installation Category of installation Pollution Degree	-10°C +60°C -40°C +85°C
Full scale Sample time (per ch		1 % / °C s			Inputs Re	emovable screw-terminals emovable screw-terminals emovable screw-terminals emovable screw-terminals. EATIONS Self-extinguish plastic IP20 wires with diameter 0.8÷2.1 mm² /AWG 14-18 0.8 N m in compliance with DIN rail standard EN-50022 about 150 g.
(1) Referred to input Spa	n (difference between	ı max. and min.			CERTIFICATIONS EMC (for the Industrial El Immunity Emission UKCA (ref S.I. 2016 N°109 Immunity Emission	EN 61000-6-2 EN 61000-6-4

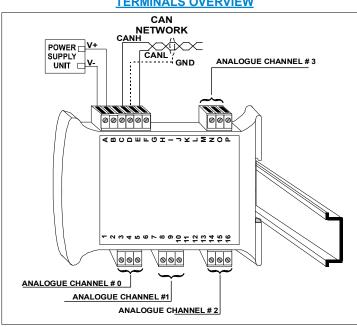
INSTALLATION INSTRUCTIONS

The device is suitable to be mounted on DIN rail, in vertical position. For a correct working and a long life of the device, read the following indications. In case of the devices are mounted side by side, please leave about 5mm between in the following situations:

- Temperature in the cabinet higher than 45 °C and high supply voltage (>27Vdc).

Avoid to place raceways or other objects which could obstruct the ventilation slits. It is suggested to avoid that devices are mounted above appliances generating heat; their ideal place should be in the lower part of the panel. Avoid to install the devices in a site where vibrations are present. It is recommended to use shielded cable for connecting signals. The shield must be connected to an earth wire provided for this purpose. Moreover it is suggested to avoid routing conductors near power signal cables.

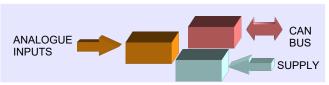
TERMINALS OVERVIEW



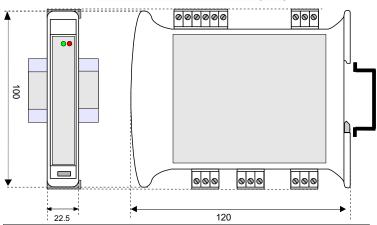
LIGHT SIGNALLING

LED	COLOUR	STATE	DESCRIPTION	
RUN	GREEN	ON	Device in Operational mode	
		BLINKING	Device in Pre-Operational mode	
		SLOW BLINKING	Device stopped	
ERR	RED	OFF	No error	
		BLINKING	Communication error	

ISOLATION STRUCTURE



MECHANICAL DIMENSIONS (mm)





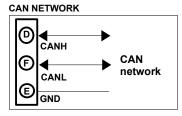
The symbol reported on the product indicates that the product itself must not be considered as a domestic waste.

It must be brought to the authorized recycle plant for the recycling of electrical and

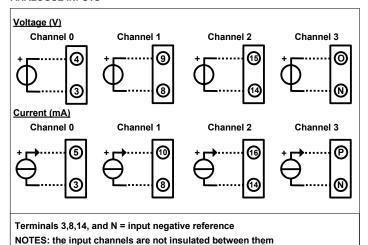
For more information contact the proper office in the user's city, the service for the waste treatment or the supplier from which the product has been purchased

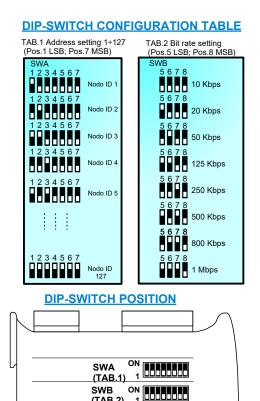
WIRING

POWER SUPPLY B 10÷30 Vdc



ANALOGUE INPUTS







(TAB.2)