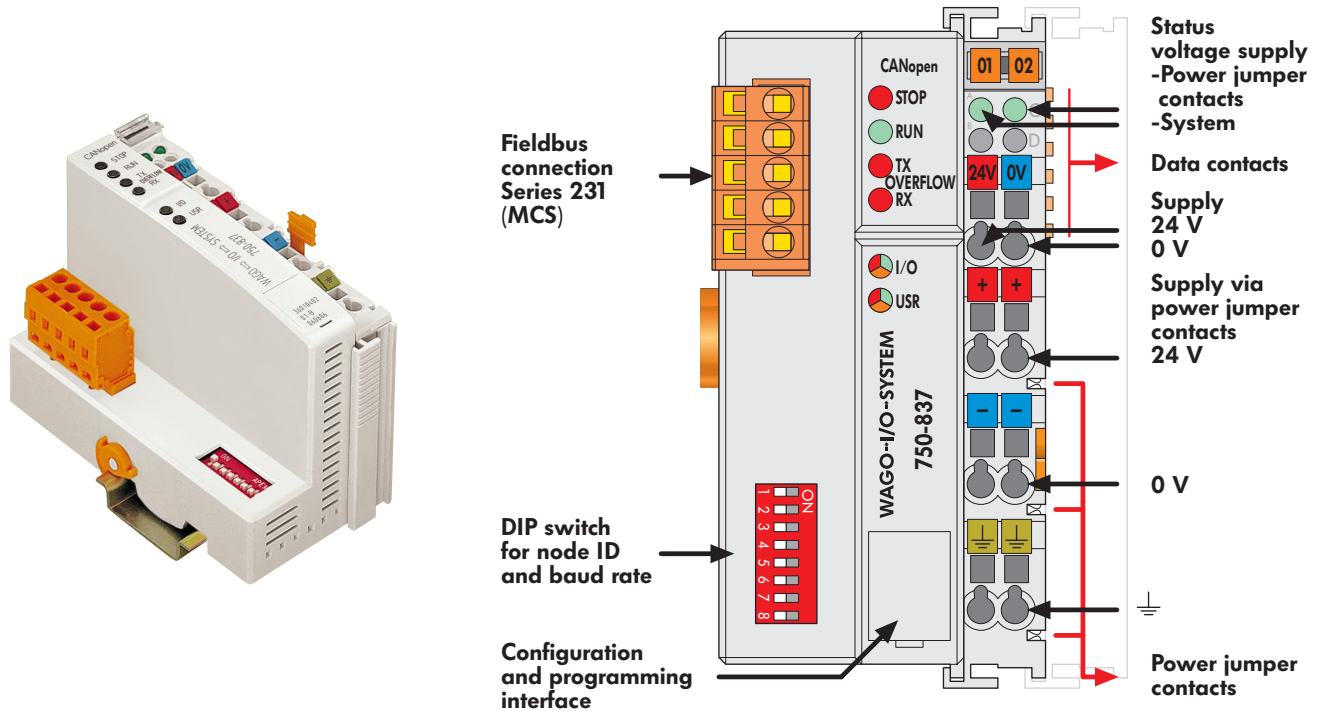


CANopen Programmable Fieldbus Controller;
 10 kbaud ... 1 Mbaud; digital and analog signals



The programmable fieldbus controller for CANopen combines the functionality of the CANopen fieldbus coupler with the functionality of a Programmable Logic Control (PLC).

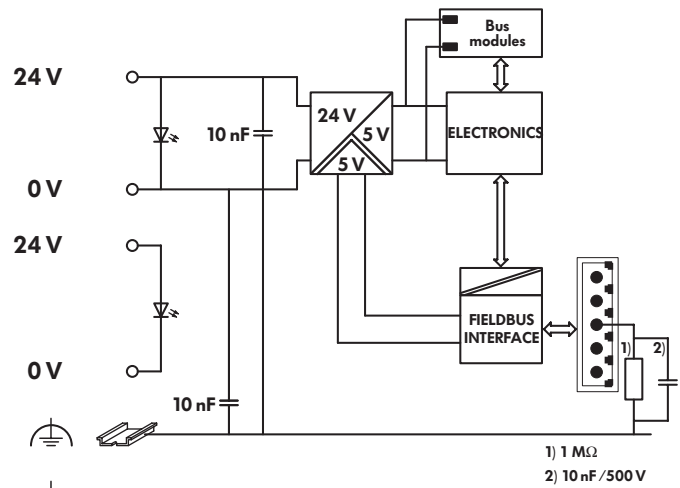
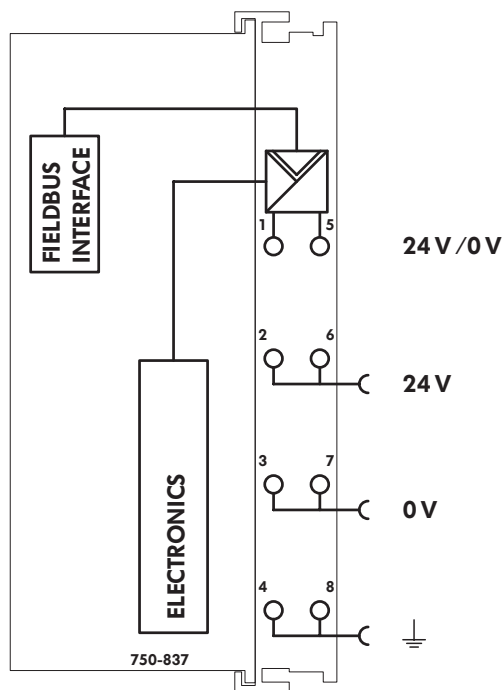
Programming of the application is done with WAGO-I/O-PRO 32 in accordance with IEC 61131-3, covering all 5 programming languages. The programmer can access all fieldbus and I/O data.

Characteristics and use:

- The use of decentralized control can better support a PLC or PC
- Signal pre-processing reduces fieldbus transmissions
- Complex applications can be divided into multiple tasks
- Tasks can be prioritized
- Peripheral equipment can be controlled directly, resulting in faster system response times
- Programmable response in the event of a fieldbus failure
- Simple, self-sufficient control

Note: EDS files required

Description	Item-No.	Pack.-unit pcs	System Data	
Contr. CANopen	750-837	1	No. of nodes	110
			Transmission medium	shielded Cu cable 3 x 0.25 mm ²
			Max. length of bus line	30 m ... 1000 m (depends on the baud rate / on the cable)
			Baud rate	10 kbaud ... 1 Mbaud
			Buscoupler connection	5-pole male connector, series 231 (MCS) female connector 231-305/010-000 is included
			Programming	WAGO-I/O-PRO 32
			IEC 61131-3	IL, LD, FBD, ST, FC



Technical Data		General specifications	
Max. no. of I/O modules	64	Operating temperature	0 °C ... +55 °C
Fieldbus		Wire connection CAGE CLAMP®	0.08 mm ² ... 2.5 mm ² ; AWG 28 ... 14
-Input process image	max. 512 bytes		8 ... 9 mm ² / 0.33 in stripped length
-Output process image	max. 512 bytes	Dimensions (mm) W x H x L	51 x 65* x 100
-Input variables	max. 512 bytes		* from upper edge of DIN 35 rail
-Output variables	max. 512 bytes	Weight	ca 195 g
Configuration	automatic	Storage temperature	-25 °C ... +85 °C
Program memory	128 kbytes	Relative air humidity	95% no condensation
Data memory	64 kbytes	Vibration and	acc. to IEC 60068-2-6
Non-volatile memory	8 kbytes	shock resistance	acc. to IEC 60068-2-27
Cycle time	< 3 ms for 1,000 statements / 256 dig. I/Os	Degree of protection	IP 20
No. of PDOs	32 Tx / 32 Rx	EMC CE -Immunity to interference	acc. to EN 50082-2 (1996)
No. of SDOs	2 Server SDO / 16 Client SDO	EMC CE -Emission of interference	acc. to EN 50081-2 (1994)
Communication profile	DS-301 V4.01	EMC marine applications -Immunity to interf.	acc. to Germanischer Lloyd (1997)
Device profile	DS-401 V 2.0	EMC marine applications -Emission of interf.	acc. to Germanischer Lloyd (1997)
	marginal check		
	edge-triggered PDOs		
	programmable error response		
	DSP 405		
	NMT master can be programmed using		
function blocks		Approvals	
COB ID Distribution	SDO, standard	eUis and marine applications	see pages 1.10 ... 1.13
Node ID Distribution	DIP switches	Ex	II 3 GD EEx nA II T4, Class I Div2 ABCD T4A
Other CANopen features	NMT Slave	Conformity marking	CE
	Minimum Boot-up		
	Variable PDO Mapping		
	Emergency Message		
	Life Guarding / Heartbeat		
	Configuration of virtual modules		
Configuration	via PC or PLC	Accessories	Item-No.
Voltage supply	DC 24 V (-25% ... +30%)		Pack.-unit
Input current _{max.}	500 mA at 24 V	EDS files	pcs
Efficiency of the power supply	87%		
Internal current consumption	350 mA at 5 V	Download: www.wago.com	
Total current for I/O modules	1650 mA at 5 V		
Isolation	500 V system / supply		
Voltage via power jumper contacts	DC 24 V (-25% ... +30%)	Miniature WSB quick marking system	
Current via power jumper contacts _{max.}	DC 10 A	plain	248-501 5
		with marking	see pages 1.174 ... 1.175

Subject to design changes