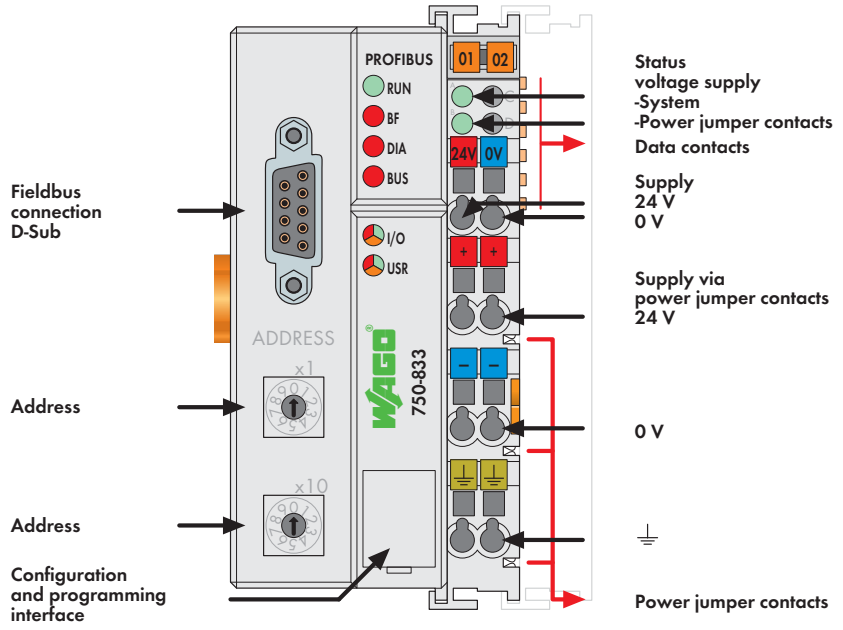


PROFIBUS DP/V1 Programmable Fieldbus Controller

12 Mbaud; digital and analog signals



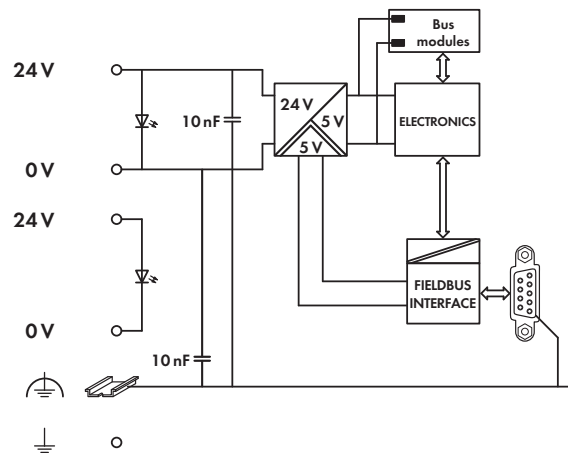
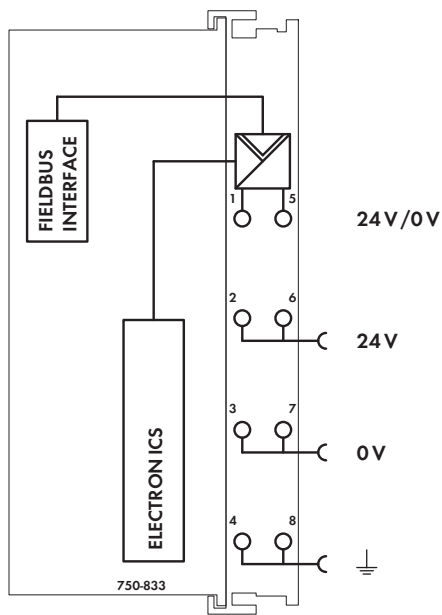
The 750-833 Programmable Fieldbus Controller combines the PROFIBUS DP functionality of the 750-333 Fieldbus Coupler 750-333 with the functionality of a Programmable Logic Control (PLC). Programming of the application is performed in accordance with IEC 61131-3, covering all 5 programming languages. The programmer can access all fieldbus and I/O data.

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

Notice: GSD files required

Description	Item no.	Pack. unit
Contr. PROFIBUS DP/V1 12 MBd	750-833	1
PROFIBUS DP/V1-Controller/T	750-833/025-000	1
Operating temperature -20 °C ... +60 °C		
Accessories	Item no.	Pack. unit
GSD files Download: www.wago.com		
Miniature WSB quick marking system,		
	plain	248-501 5
	with marking	see pages 256 ... 257
Standards and Approvals	(Product variations available upon request)	
Standard	EN 50170	
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
EN 60079-15	I M2 / II 3 GD Ex nA nL IIC T4 BR-Ex nA II T4	
Marine applications	see "Approvals Overview" in section 1	

System Data	
No. of controllers connected to Master	96 with repeater
Max. no. of I/O points	ca. 6000 (depends on master)
Transmission medium	Cu cable acc. to EN 50170
Max. length of fieldbus segment	100 m ... 1200 m (depends on baud rate/cable)
Baud rate	9.6 Kbaud ... 12 Mbaud
Transmission time	typ. 1 ms (10 controllers; 32 digital I/Os per controller at 12 Mbaud)
	max. 3.3 ms
Buscoupler connection	1 x D-Sub 9; socket
Programming	WAGO-I/O-PRO 32 (as of firmware SW 07 also programmable with WAGO-I/O-PRO CAA)
IEC 61131-3	IL, LD, FBD, ST, FC



Technical Data		General Specifications	
Number of I/O modules	63	Operating temperature	0 °C ... +55 °C
Fieldbus		Wire connection	CAGE CLAMP®
Max. input process image	244 bytes	Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14
Input variables (max.)	244 bytes	Stripped lengths	8 ... 9 mm / 0.33 in
Max. output process image	244 bytes	Dimensions (mm) W x H x L	51 x 65 x 100
Output variables (max.)	244 bytes		Height from upper-edge of DIN 35 rail
Configuration	automatic	Weight	184 g
Program memory	128 Kbytes	Storage temperature	-25 °C ... +85 °C
Data memory	64 Kbytes	Relative air humidity (no condensation)	95 %
Non-volatile memory (retain)	8 Kbytes	Vibration resistance	acc. to IEC 60068-2-6
Cycle time	< 3 ms for 1,000 statements / 256 dig. I/Os	Shock resistance	acc. to IEC 60068-2-27
Voltage supply	DC 24 V (-25 % ... +30 %)	Degree of protection	IP20
Max. input current (24 V)	500 mA	EMC CE-Immunity to interference	acc. to EN 50082-2 (1996)
Efficiency of the power supply	87 %	EMC CE-Emission of interference	acc. to EN 50081-2 (1994)
Internal current consumption (5 V)	200 mA	EMC marine applications -	
Total current for I/O modules (5 V)	1800 mA	Immunity to interference	acc. to Germanischer Lloyd (2003)
Isolation	500 V system/supply	EMC marine applications -	
Voltage via power jumper contacts	DC 24 V (-25 % ... +30 %)	Emission of interference	acc. to Germanischer Lloyd (2003)
Current via power jumper contacts (max.)	DC 10 A		