

PROFIBUS DP/V1 Fieldbus Coupler

12 Mbaud; digital and analog signals

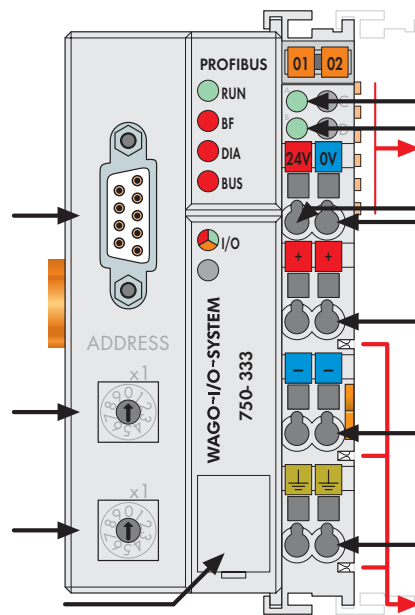


Fieldbus connection D-Sub

Address

Address

Configuration interface



Status voltage supply -System -Power jumper contacts

Data Contacts

Supply 24 V 0 V

Supply via power jumper contacts 24 V

0 V

⊥

Power jumper contacts


This buscoupler interfaces the I/O modules of the WAGO-I/O-SYSTEM to PROFIBUS DP.

When initializing, the buscoupler determines the module structure of the node, to create the process image in Profibus. In order to optimize addresses, the I/O modules with a bit width smaller than 8 are grouped in one byte.

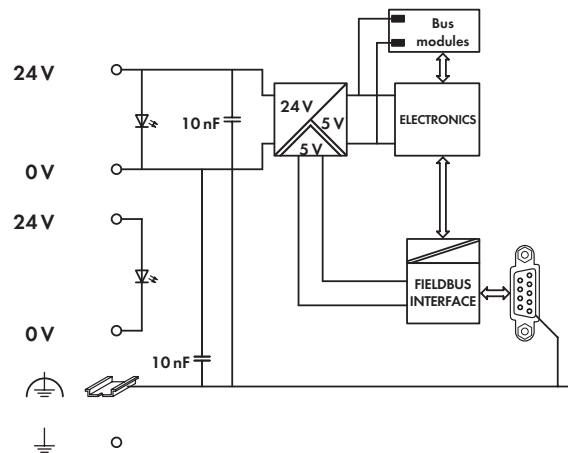
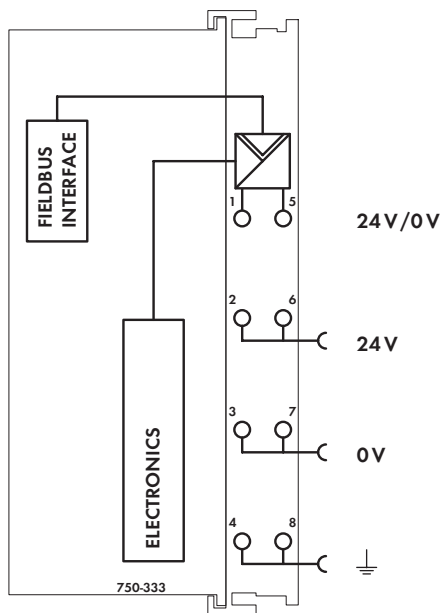
It is furthermore possible to deactivate I/O modules and to modify the image of the node according to the connected signals without having to modify the existing application.

The diagnosis concept is based on diagnostics according to the EN 50170 Standard. Therefore the programming of modules is not necessary to interpret the diagnostic information from each manufacturer.

Note: GSD files required

Description	Item no.	Pack. unit
PROFIBUS DP/V1 12MBd	750-333	1
Accessories		
GSD files	Download: www.wago.com	
Miniature WSB Quick marking system		
 plain	248-501	5
with marking	see pages 224 ... 225	
Standards and Approvals		
Standard	EN 50170	
UL 508		
Marine applications	see pages 36 ... 39	
EN 50021	II 3 GD EE _x nA II T4	
UL 1604	Class I Div2 ABCD T4A	
Conformity marking	CE	

System data	
No. of couplers 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 the baud rate / on the cable)
Baud rate	9,6 kbaud ... 12 Mbaud
Transmission time	typ. 1 ms (10 Modules; 32 I, 32 O/Mod; at 12 Mbaud and digital Signals) max. 3.3 ms
Buscoupler connection	1 x D-Sub 9; socket



Technical Data		General Specifications	
Max. no. 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
Max. output process image	244 bytes	Stripped lengths	8 ... 9 mm / 0.33 in
Configuration	via PC or PLC	Dimensions (mm) W x H x L	51 x 65 x 100
Voltage supply	DC 24 V (-25 % ... +30 %)		Height from upper edge of DIN 35 rail
Max. input current (24V)	500 mA	Weight	approx. 182 g
Efficiency of the power supply	87 %	Storage temperature	-25 °C ... +85 °C
Internal current consumption (5V)	200 mA	Relative humidity (without condensation)	95 %
Total current for I/O modules (5V)	1800 mA	Vibration resistance	acc. to IEC 60068-2-6
Isolation	500 V system / supply	Shock resistance	acc. to IEC 60068-2-27
Voltage via power jumper contacts	DC 24 V (-25 % ... +30 %)	Degree of protection	IP 20
Current via power jumper contacts (max.)	DC 10 A	EMC C € -Immunity to interference	acc. to EN 50082-2 (1996)
		EMC C € -Emission of interference	acc. to EN 50081-2 (1994)
		EMC marine applications -	
		Immunity to interference	acc. to Germanischer Lloyd (1997)
		EMC marine applications -	
		Emission of interference	acc. to Germanischer Lloyd (1997)