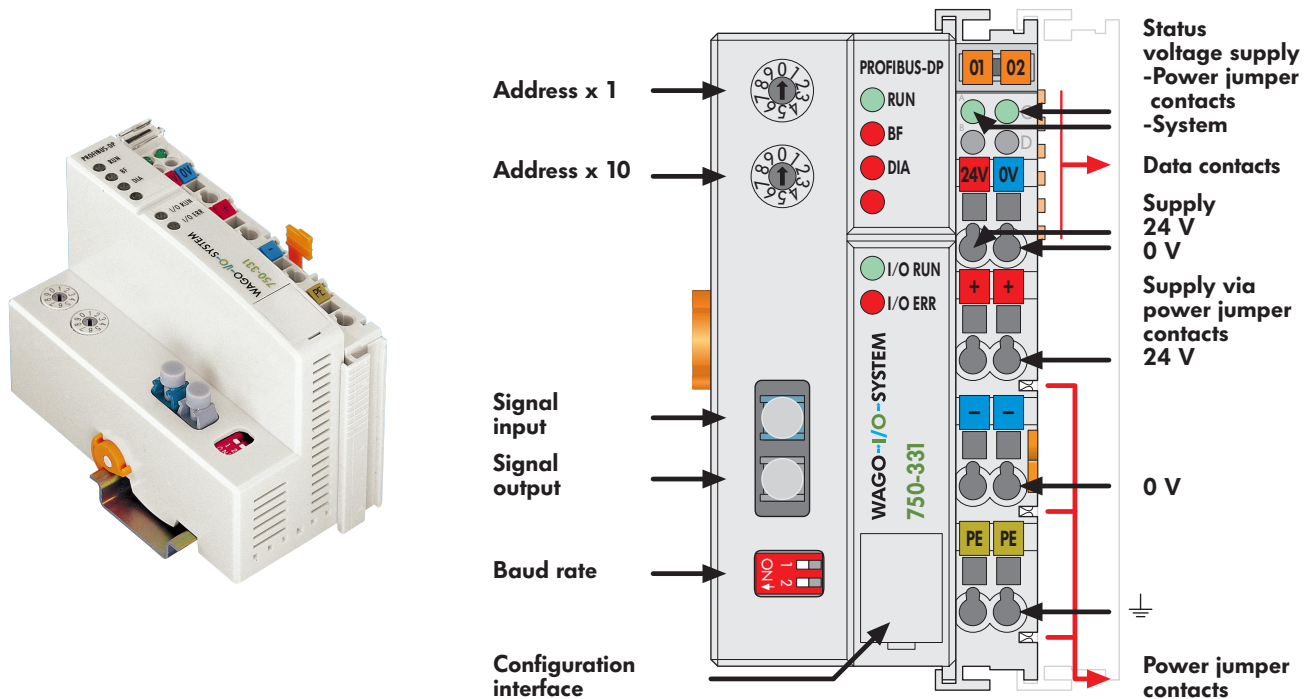


PROFIBUS DP

Fieldbus Coupler; EN 50170; 1.5 Mbaud, fiber optic connection, digital and analog signals



This buscoupler allows connection of the WAGO \Rightarrow I/O \Rightarrow SYSTEM as a slave to the PROFIBUS DP fieldbus.

The buscoupler is capable of supporting all bus modules. The buscoupler automatically configures, creating a local process image which may include analog, digital or specialty modules. Analog and specialty module data is sent via words and/or bytes, digital data is sent bit by bit.

The local process image is divided into two data zones containing the data received and the data to be sent.

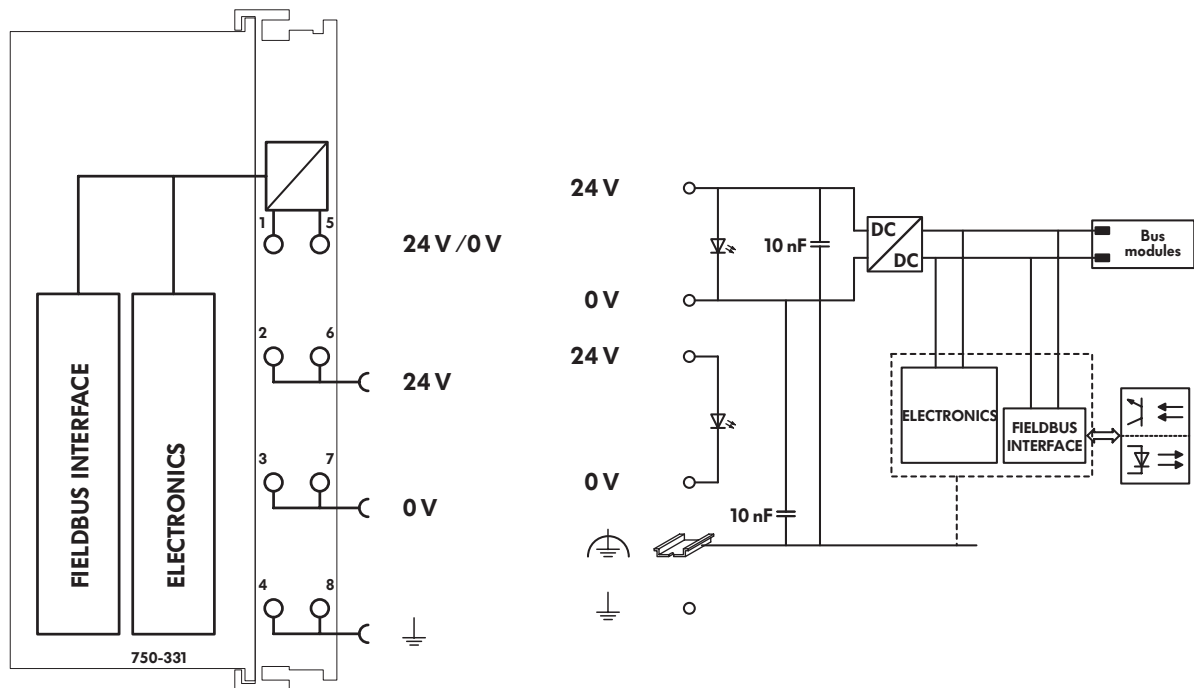
The process data can be sent via the PROFIBUS DP fieldbus to the PLC, PC or NC for further processing, and received from the field via PROFIBUS DP.

The data of the analog modules is stored in the process image which is created automatically according to the order in which the modules are connected to the buscoupler. The bits of the digital modules are sent byte by byte and added to the analog data. If the amount of digital information exceeds 8 bits, the buscoupler automatically starts with a new byte.

For the operation of a PROFIBUS DP coupler with fiber optic cable connection, an interface module is also necessary to transfer RS 485 on an fiber optic ring. A subring can contain up to 10 other fiber optic modules. The baud rate is set via two DIP switches on the buscoupler.

Note: GSD files required

Description	Item-No.	Pack.-unit pcs	System Data	
PROFIBUS DP 1,5 MBd Opt. Fibre	750-331	1	Max. no. of nodes in the subring	10
			Transmission medium	APF (plastic) fiber (1000 μ m)
			Length of fieldbus segment	1 m ... 25 m
			Topology	subring, single-fiber ring
			Baud rate	93.75 ... 1,500 kbaud
			Buscoupler connection	fiber optic cable plug HP Simplex included



Technical Data		General specifications	
Max. no. of I/O modules	64	Operating temperature	0 °C ... +55 °C
Fieldbus		Wire connection CAGE CLAMP®	0.08 mm² ... 2.5 mm²; AWG 28 ... 14
-Input process image	max. 128 bytes		8 ... 9 mm / 0.33 in stripped length
-Output process image	max. 128 bytes	Dimensions (mm) W x H x L	51 x 65* x 100
Configuration	via PC or PLC		* from upper edge of DIN 35 rail
Voltage supply	DC 24 V (-15% ... +20%)	Weight	ca 195 g
Input current _{max.}	500 mA at 24 V	Storage temperature	-25 °C ... +85 °C
Efficiency of the power supply	87 %	Relative air humidity	95% no condensation
Internal current consumption	350 mA at 5 V	Vibration and shock resistance	acc. to IEC 60068-2-6
Total current for I/O modules	1650 mA at 5 V	shock resistance	acc. to IEC 60068-2-27
Isolation	500 V system / supply	Degree of protection	IP 20
Voltage via power jumper contacts	DC 24 V (-15% ... +20%)	EMC CE -Immunity to interference	acc. to EN 50082-2 (1996)
Current via power jumper contacts _{max.}	DC 10 A	EMC CE -Emission of interference	acc. to EN 50081-2 (1994)
DIP switches		Standards and Approvals	
Baud rate	S1	S2	Standard
93.75 kBd	off	off	EN 50170
187.5 kBd	off	on	UL _{US}
500 kBd	on	off	see pages 1.10 ... 1.13
1,500 kBd	on	on	Conformity marking
			CE
		Accessories	Item-No.
		GSD files	Download: www.wago.com
		Miniature WSB quick marking system	
		plain	248-501
		with marking	see pages 1.174 ... 1.175
			Pack.-unit pcs
			5