

MODBUS fieldbus coupler; RS-485, 150 ... 19,200 baud; digital and analog signals

Item No.: 750-312



MODBUS fieldbus coupler; RS-485, 150 ... 19,200 baud; digital and analog signals

Marking

RoHS ✓
Compliant

Business data

Supplier	WAGO
Item no.	750-312
EAN	4045454891121
Content	1
Order amount	1
Customer item number	

Notes

When implementing new installations, please consider 750-812, 750-814, 750-815 and 750-816 fieldbus controllers with extended functions. This buscoupler allows connection of the WAGO/OSYSTEM as a slave to the MODBUS fieldbus. 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 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.

Technical data

Miscellaneous

Color	light gray
Conformity marking	CE
No. of couplers connected to Master	99 with repeater

Technical data	
Max. no. of I/O points	approx. 6000 (depends on master)
Transmission medium	Shielded Cu cable 2 (4) x 0.25 mm ²
Max. length of fieldbus segment	1200 m (depends on baud rate/cable)
Baud rate	150 baud ... 19200 baud
Buscoupler connection	1 x D-Sub 9; socket
Number of I/O modules	64
Max. input process image	512 bytes
Max. output process image	512 bytes
Configuration	DIP switch and 2 decimal coders or via PC or PLC
Power supply	24 V DC (-25 % ... +30 %)
Max. input current (24 V) [mA]	500 [mA]
Efficiency of the power supply [%]	87 [%]
Internal current consumption (5 V) [mA]	350 [mA]
Total current for I/O modules (5 V) [mA]	1650 [mA]
Isolation	500 V system/supply
Voltage via power jumper contacts	24 V DC (-25 % ... +30 %)
Current via power jumper contacts (max.) [A]	10 A DC [A]
Degree of protection	IP20
Connection technology (1)	CAGE CLAMP®
Cross section from (1) [mm ²]	0.08 [mm ²]
Cross section up to (1) [mm ²]	2.5 [mm ²]
Cross section from (1) [AWG]	28 [AWG]
Cross section up to (1) [AWG]	14 [AWG]
Stripped length from (1) [mm]	8 [mm]
Stripped length up to (1) [mm]	9 [mm]
Stripped length (1) [in]	0.33 [in]
Weight [g]	258.046 [g]
Width [mm]	51 [mm]
Width [in]	2.008 [in]
Height [mm]	65 [mm]
Height [in]	2.559 [in]
Length [mm]	100 [mm]
Length [in]	3.937 [in]
Storage temperature	-25 °C ... +85 °C

Technical data	
Relative air humidity (no condensation) [%]	95 [%]
Type of mounting	DIN 35 rail
Operating temperature	0 °C ... +55 °C
EMC: marine applications - emission of interference	acc. to Germanischer Lloyd (2003)
EMC: marine applications - immunity to interference	acc. to Germanischer Lloyd (2003)
EMC: CE - emission of interference	acc. to EN 61000-6-4 (2007)
EMC: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
Shock resistance	acc. to IEC 60068-2-27
Vibration resistance	acc. to IEC 60068-2-6

Approbation					
Item No.	Registration	Registration no.	Voltage [V]	Current [A]	Cross section [mm², AWG]
750-312	ABS	03-HG374860/3-PDA			
750-312	ABS	10-HN1775034-X			
750-312	BSH	Bescheinigung Nr. 467			
750-312	BV	13453/C0 BV			
750-312	DNV	A-12306			
750-312	GL	26 898 - 05 HH			
750-312	IECEX	IECEX PTB 07.0067/01			
750-312	KR	HMB05880-AC001			
750-312	LR	02/20026 (E4)			
750-312	NK	TA12716M			
750-312	Rina	ELE134212XG			
750-312	UL	08 ATEX 142851 X			
750-312	UL	E175199 Sec.1			
750-312	UL	E198726 Sec.1			

Accessories

Accessories

Carrier rail

Item no.	Description	Pack. unit (Sub Pack)
210-112	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to en 60715; "Hole width 25 mm	1
210-113	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to en 60715	1
210-114	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; according to en 60715	1
210-115	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to en 60715; "Hole width 18 mm	1
210-118	Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to en 60715	1
210-196	Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; according to en 60715	1
210-197	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; according to en 60715	1
210-198	Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to en 60715	1
210-504	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715	1
210-505	Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715	1
210-506	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; ähnlich EN 60715	1
210-508	Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; ähnlich EN 60715	1

Accessories

Marking accessories

Item no.	Description	Pack. unit (Sub Pack)
2009-145	Mini-WSB Inline; plain; 1,700 Mini-WSB markers (5 mm) on roll; stretchable 5 - 5.2 mm	1
248-501	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-002	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-005	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-006	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-007	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-012	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-017	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-023	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
248-501/000-024	Miniature WSB quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	5
750-100	Markers for group marker carrier; DIN A4 sheet (160 markers)	1
750-103	750/753 Series marker carrier	50

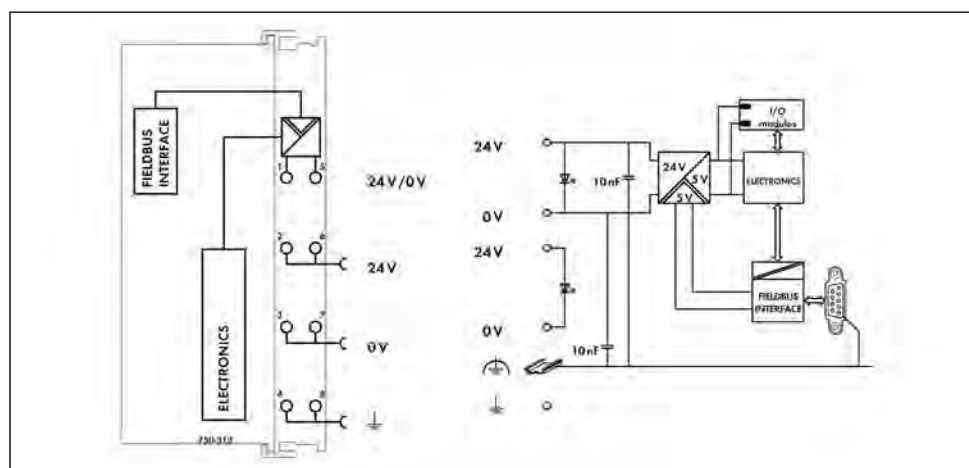
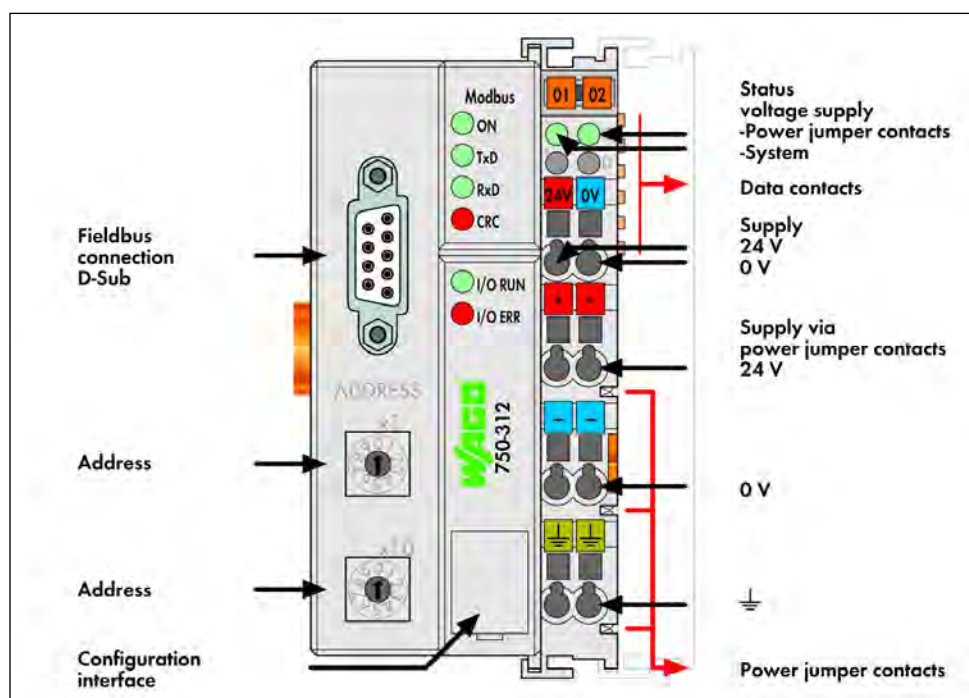
Accessories

General accessory

Item no.	Description	Pack. unit (Sub Pack)
210-719	Operating tool with partially insulated shaft; Type 1, blade (2.5 x 0.4) mm; suitable for 279, 726, 727, 2000, 2001 and 2020 series	1
210-720	Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm; suitable for 260, 261, 262, 264, 270, 280, 281, 290, 775, 776, 777, 769, 780, 781, 869, 870, 880, 2002, 2003, 2004, 2005 and 2022 Series	1
288-812	Power supply unit; with universal mounting carrier; AC 230 V / DC 24 V;; Output voltage indication	1
288-813	Power supply unit; with universal mounting carrier; AC 115 V / DC 24 V;; Output voltage indication	1
750-920	Communication cable	1
750-921	WAGO radio adapter	1
790-108	Shield clamping saddle; 11 mm wide; diameter of compatible conductor; up to 8 mm	10
790-116	Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 mm to 16 mm	10
790-124	Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 mm to 24 mm	10
790-140	Shield clamping saddle; 43 mm wide; diameter of compatible conductor; 22 mm to 40 mm	10

Images & drawings





Address

WAGO Kontakttechnik GmbH & Co. KG

Hansastr. 27

32423 Minden

Telefon: 0571/887-0

Fax: 0571/887-169

<http://www.wago.com>

© WAGO Kontakttechnik GmbH & Co. KG

Technische Änderungen und Irrtümer vorbehalten.