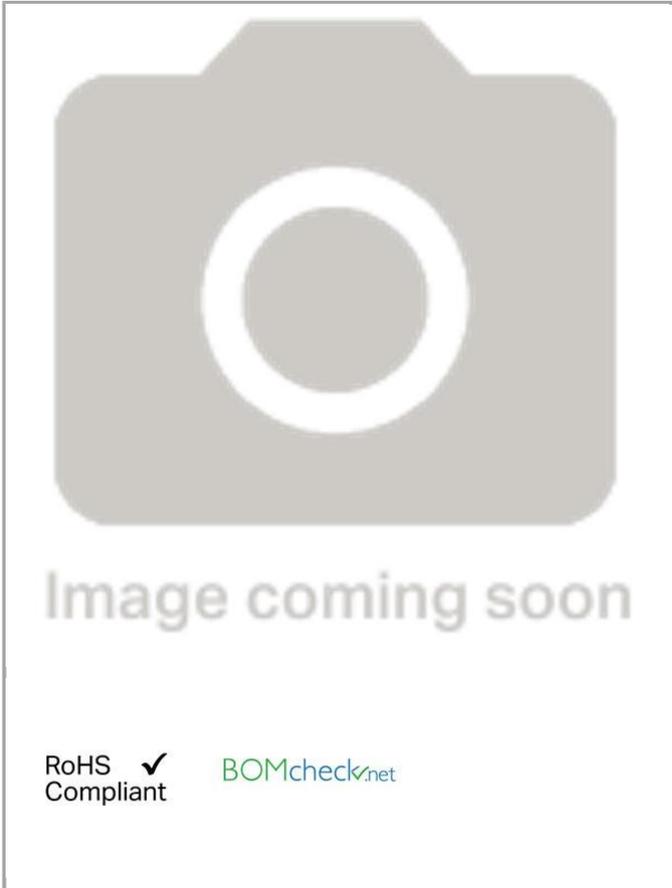




Data sheet | Item number: w750-312

Fieldbus Coupler MODBUS; RS-485; 19,2 kBd

<https://domat-int.com/en/downloads/data-sheets>



### Item description

This buscoupler allows connection of the WAGO-I/O-SYSTEM 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.

### Data

#### Technical Data

Communication	Modbus RTU
Number of fieldbus nodes on the master max.	99
Max. no. of I/O points	6000
Baud rate	150 Baud ... 19.2 kBd



Fieldbus segment length max.	1200 m
Transmission medium	Shielded Cu cable 2 (4) x 0.25 mm <sup>2</sup>
Number of modules per node max.	64
Input and output process image (Fieldbus) max.	512 Byte/512 Byte
System supply voltage	DC 24 V (-25 ... +30 %); via wiring level (CAGE CLAMP connection) <sup>®</sup>
Current consumption, system supply (5 V)	350 mA
Total current for system supply	1650 mA
System and sensor supply voltage	
Field supply voltage	DC 24 V (-25 ... +30 %); via power jumper contacts
Input current typ. at rated load (24 V)	500 mA
Efficiency of the power supply (typ.) at nominal load (24 V)	87 %
Isolation	500 V system/supply
Number of outgoing power jumper contacts	3
Current carrying capacity of the power jumper contacts	10 A

#### Connection data

Connection technology: communication/fieldbus	Modbus RTU: 1 x D-Sub 9 socket
Connection technology: field supply	6 x CAGE CLAMP <sup>®</sup>
Connection technology: system supply	2 x CAGE CLAMP <sup>®</sup>
Connection technology: Device configuration	1 x 4-pole male connector
Connection type (1)	System/field supply
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch

#### Geometrical Data

Width	50.5 mm / 1.988 inch
Height	71.1 mm / 2.799 inch
Height from upper-edge of DIN-35 rail	63.9 mm / 2.516 inch
Depth	100 mm / 3.937 inch

#### Mechanical data

Type of mounting	DIN-35 rail
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#### Material Data

Color	light gray
Housing material	Polycarbonate, polyamide 6.6
Weight	194.889 g



Conformity marking	CE
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### Environmental Requirements

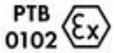
Surrounding air (operating) temperature	0 ... 55 °C
Surrounding air (storage) temperature	-25 ... 85 °C
Protection class	IP20
Degree of pollution (5)	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); max.: 5000 m
Mounting position	any
Relative air humidity (no condensation)	95 %
Vibration resistance	acc. to IEC 60068-2-6
Shock resistance	15 g per IEC 60068-2-27
EMC immunity to interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-4, marine applications
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible H S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO contaminant concentration at a relative humidity 75 %	25 ppm

### Commercial data

Product Group	15 (Remote I/O)
Country of origin	DE
GTIN	4045454891121

### Approvals / Certificates

#### Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX TUEV Nord Cert GmbH	EN 60079-0	TÜV 07 ATEX 554086 X en.
	TUEV Nord TUEV Nord Cert GmbH	IEC 60079-0	IECEx TUN 09.0001 X



UL  
Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)

ANSI/ISA 12.12.01

E198726  
Sec.1

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	KC National Radio Research Agency	Article 58-2, Clause 3	MSIP- REM- W43FBC750

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1821926
	ABS American Bureau of Shipping	Rules for class. of Steel Ships	16- HG1554285PDA
	BV Bureau Veritas S.A.	-	13453/DO BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA0000194
	KR Korean Register of Shipping	-	HMB05880AC001
	LR Lloyds Register	-	02/20026 (E5)
	NK Nippon Kaiji Kyokai	-	TA17255M



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This item has been discontinued and as of 31.05.2018, can no longer be delivered.



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UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

Subject to changes.

Domat control system

Do you have any questions about our products?

WAGO Kontakttechnik GmbH & Co. KG (manufacturer)

We are always happy to take your call at +420 461 100 666.