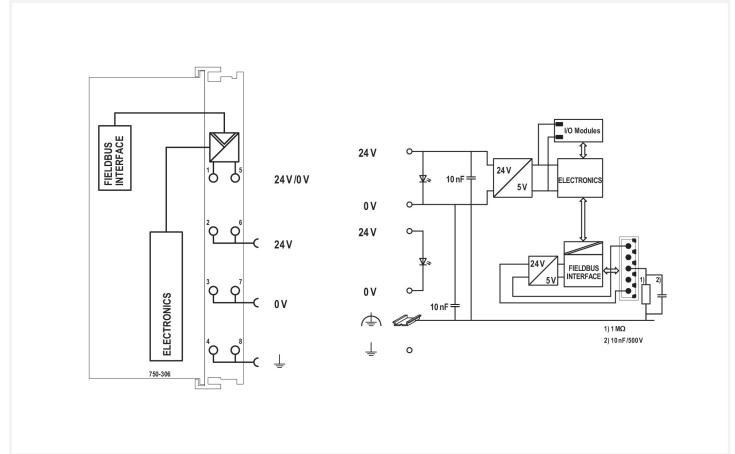


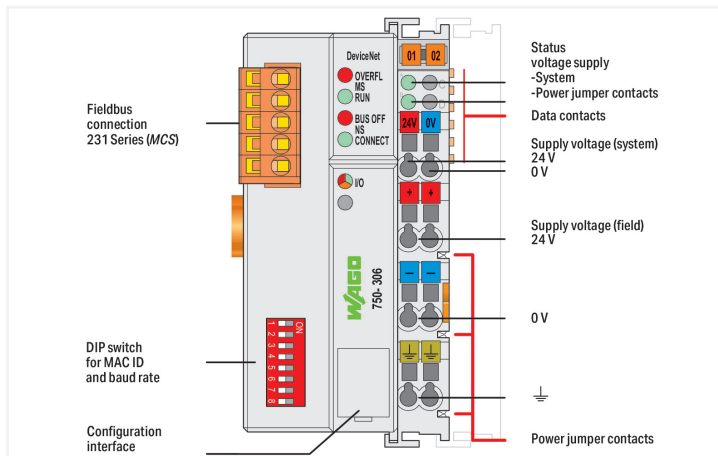
Data Sheet | Item Number: 750-306

Fieldbus Coupler DeviceNet

<https://www.wago.com/750-306>



Color: ■ light gray



This fieldbus coupler connects the WAGO I/O System as a slave to the DeviceNet fieldbus.

The fieldbus coupler detects all connected I/O modules and creates a local process image. Analog and specialty module data is sent via words and/or bytes; digital data is sent bit by bit.

The process image can be transferred via the DeviceNet fieldbus to the memory of the control system.

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 DeviceNet™ to a control system for further processing. The process output data is sent via DeviceNet™.

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



Notes		
Note		Note: Configuration files required (EDS)!

Technical data		
Communications		DeviceNet
Number of fieldbus nodes on master (max.)		64
Number of I/O points		6000
Transmission rate		500 kBd (125 kBd, 250 kBd, 500 kBd)
Bus segment length (max.)		500 m
Transmission medium (communication/fieldbus)		Shielded Cu cable; Remote bus cable: 2 x 0.82 mm ² + 2 x 1.7 mm ² ; Drop cable: 2 x 0.2 mm ² + 2 x 0.32 mm ²
Number of modules per node (max.)		64
Number of modules without a bus extension (max.)		64
DeviceNet features		Polled I/O Message Connection Strobed I/O Message Connection Change of State Cyclic Message Connection Group 2 only Slave
Input and output process image (fieldbus) max.		512 bytes/512 bytes
Supply voltage (system)		24 VDC (-25 ... +30 %); via pluggable connector (CAGE CLAMP® connection)
Current consumption (system supply)		350 mA
Total current (system supply)		1650 mA
Supply voltage (field)		24 VDC (-25 ... +30 %); via power jumper contacts
Input current via DeviceNet interface at 11 V		120 mA
Input current (typ.) at nominal load (24 V)		500 mA
Power supply efficiency (typ.) at nominal load (24 V)		87 %
Number of outgoing power jumper contacts		3
Current carrying capacity (power jumper contacts)		10 A
Certification		ODVA

Safety and protection		
Protection type		IP20
Pollution degree		2 per IEC 61131-2
Isolation		500 V system/field

Connection Data		
Connection technology: communication/fieldbus		DeviceNet: 1 x Male connector; 5-pole
Connection technology: field supply		6 x CAGE CLAMP®
Connection technology: system supply		2 x CAGE CLAMP®
Connectable conductor materials		Copper
Connection type		System/field supply
Solid conductor		0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor		0.08 ... 2.5 mm ² / 28 ... 14 AWG
Strip length		8 ... 9 mm / 0.31 ... 0.35 inches
Connection technology: device configuration		1 x Male connector; 4-pole



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

Mechanical data		
Mounting type		DIN-35 rail

Material data		
Color		light gray
Housing material		Polycarbonate; polyamide 6.6
Fire load		3.333 MJ
Weight		200 g
Conformity marking		CE

Environmental requirements		
Ambient temperature (operation)		0 ... +55 °C
Ambient temperature (storage)		-25 ... +85 °C
Operating altitude		0 ... 2000 m / 0 ... 6562 ft
Mounting position		Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
Relative humidity (without condensation)		95 %
Vibration resistance		4g per IEC 60068-2-6
Shock resistance		15g per IEC 60068-2-27
EMC immunity to interference		per EN 61000-6-2, marine applications
EMC emission of interference		per EN 61000-6-4, marine applications
Exposure to pollutants		per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %		10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %		25 ppm

Data Act		
Pre-contractual Information		Data-Act-750-Series-Coupler

Commercial data		
Product Group		15 (I/O System)
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
GTIN		4045454526542
Customs tariff number		85176200000



Product Classification	
UNSPSC	32151705
eCl@ss 10.0	27-24-26-07
eCl@ss 9.0	27-24-26-07
ETIM 9.0	EC001603
ETIM 10.0	EC001603
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
CAS-No.	12060-00-3 1303-86-2 1317-36-8 25550-51-0 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 4-Methyl-1,2-cyclohexanedicarboxylic anhydride Diboron trioxide Lead Lead monoxide Lead titanium oxide (PbTiO3)
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	20aa056f-7e22-458a-9aef-7f7cb8887f38
SCIP notification number (Belgium)	0ad10841-08f5-4384-a127-c93147733cb4
SCIP notification number (Bulgaria)	f247add9-1547-471c-91a7-ea6b50763f6a
SCIP notification number (Czech Republic)	23a9be6a-f477-4098-ac3a-f515e4a2bf0d
SCIP notification number (Denmark)	e1ec7051-8174-441a-9538-40d560b93308
SCIP notification number (Finland)	45e3387d-99e2-4e82-b68c-7a81c68c107c
SCIP notification number (France)	51ef14d9-1fc8-497a-b42c-c1685c47b277
SCIP notification number (Germany)	635f775e-ded2-4f30-be01-4f965ac4ea36
SCIP notification number (Hungary)	813c6987-a92b-4863-be98-2b5dc13ab20b
SCIP notification number (Italy)	399bd2ce-dc79-4be4-8656-2ba80654e2db
SCIP notification number (Netherlands)	d76a4e63-6c84-4a7f-92c8-6a2e675656b3
SCIP notification number (Poland)	471d6ac6-0aef-46ad-a11b-f03078ec6177
SCIP notification number (Romania)	44b3f8b6-f2cd-4333-8eec-78188d11b21b
SCIP notification number (Sweden)	cfbc572e-d55f-47c2-bc89-40bedd38d22e

Approvals / Certificates											
General approvals		Declarations of conformity and manufacturer's declarations									
  											
Approval	Standard	Certificate Name									
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083									
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-FBC750									
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Approval	Standard	Certificate Name									
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-									
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-									



Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	25-0415412
BSH Bundesamt fuer Seeschiff- fahrt und Hydrographie	-	1104
BV Bureau Veritas S.A.	-	13453/E0 BV
DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA0000194
KR Korean Register of Shipping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/1101/880590/23
RINA RINA Germany GmbH	-	ELE343521XG001

Approvals for hazardous areas



Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
CCCEx CQST/CNEx	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)
INMETRO TUV Rheinland do Brasil Lt- da.	IEC 60079-0	TUV 12.1297 X
KTL Korea Testing Laboratory	KOSHA Article 34, IEC60079-0	20-KA4BO-0095X
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 750-306

Documentation

Manual			
Product Manual De- viceNet Fieldbus Coupler	V 2.0.0	pdf 4464.98 KB	
System Manual Series 750/753			

System Description		
750/753 Series I/O-System – General Product Information	pdf 953.35 KB	
Overview on WAGO-I/O-SYSTEM 750 approvals	pdf 770.48 KB	

Bid Text			
750-306	19.02.2019	xml 6.79 KB	
750-306	21.07.2017	doc 30.00 KB	

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 159.76 KB	



Application Notes

Application note, other			
WAGO I/O Device Net Coupler with AB SCL500 (a100102)	1.0.0 27.07.2011	zip 374.53 KB	↓
WAGO I/O Device Net Coupler with AB Control-Logix (a100103)	1.0.0 19.03.2012	zip 374.86 KB	↓
Inbetriebnahme einer Omron SPS mit einem WAGO DeviceNet Feldbuskoppler a201703	1.0.0 31.05.2011	zip 702.12 KB	↓

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 750-306	↓	EPLAN Data Portal 750-306	↓
		WSCAD Universe 750-306	↓
		ZUKEN Portal 750-306	↓

Runtime Software

Firmware			
0750-0306, Feldbuskoppler DeviceNet	V 04 18.10.2021	zip 467.43 KB	↓

Device Files

Device Driver			
WAGO USB Service Kabel Treiber / Serie 750 und 857	6.5.3.0 10.09.2014	zip 4721.96 KB	↓

Libraries

Device Description File			
750-912; EDS-Dateien für DeviceNet / Serie 750, 752, 755 und 767	10 25.03.2011	zip 66.70 KB	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Communication

1.1.1.1 Communication cable


Item No.: 750-923

Configuration cable; USB connector; Length: 2.5 m


Item No.: 750-923/000-001

Configuration cable; USB connector; Length: 5 m

1.1.2 DIN-rail

1.1.2.1 Mounting accessories


Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored


Item No.: 210-198

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored


Item No.: 210-197

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored


Item No.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored


Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored


Item No.: 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; silver-colored


Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

1.1.3 Marking

1.1.3.1 Group marker carrier


Item No.: 750-106

Group marker carrier

1.1.3.2 Marker


Item No.: 750-100

Marker card; as a DIN A4 sheet; plain


Item No.: 2009-145/000-006

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue


Item No.: 2009-145/000-007

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray


Item No.: 2009-145/000-023

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green


Item No.: 2009-145/000-012

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange


Item No.: 2009-145/000-005

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red


Item No.: 2009-145/000-024

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet


Item No.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white


Item No.: 2009-145/000-002

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow


Item No.: 248-501/000-006

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue


Item No.: 248-501/000-007

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray


Item No.: 248-501/000-023

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green


Item No.: 248-501/000-017

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green


Item No.: 248-501/000-012

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange


Item No.: 248-501/000-005

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red


Item No.: 248-501/000-024

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

1.1.3.2 Marker

**Item No.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 248-501/000-002

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

1.1.3.3 Marker carrier

**Item No.: 750-103**

Group marker carrier

1.1.4 Shield termination

1.1.4.1 Shield clamping saddles

**Item No.: 790-108**

Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm

**Item No.: 790-208**

Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm

**Item No.: 790-116**

Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm

**Item No.: 790-216**

Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm

**Item No.: 790-124**

Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm

**Item No.: 790-220**

Shield clamping saddle; 30 mm wide; 6 ... 20 mm

**Item No.: 790-140**

Shield clamping saddle; diameter of compatible conductor

1.1.5 System enclosure

1.1.5.1 System enclosure

**Item No.: 850-825**

IP65 enclosure; Aluminium (RAL 7032); Wx-HxD (160x100x160 mm); 9 x M12, 4 x M20

**Item No.: 850-826**

IP65 enclosure; Aluminium (RAL 7032); Wx-HxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

**Item No.: 850-827**

IP65 enclosure; Aluminium (RAL 7032); Wx-HxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

**Item No.: 850-828**

IP65 enclosure; Aluminium (RAL 7032); Wx-HxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

**Item No.: 850-826/002-000**

IP65 enclosure; Aluminium (RAL 7035); Wx-HxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

**Item No.: 850-827/002-000**

IP65 enclosure; Aluminium (RAL 7035); Wx-HxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

**Item No.: 850-828/002-000**

IP65 enclosure; Aluminium (RAL 7035); Wx-HxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

**Item No.: 850-834**

IP65 enclosure; Polyester (RAL 7032); Wx-HxD (164x100x164 mm); 9 x M12, 4 x M20

**Item No.: 850-835**

IP65 enclosure; Polyester (RAL 7032); Wx-HxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

**Item No.: 850-836**

IP65 enclosure; Polyester (RAL 7032); Wx-HxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

**Item No.: 850-814/002-000**

IP65 enclosure; Sheet steel (RAL 7035); Wx-HxD (200x120x200 mm); without flange plate

**Item No.: 850-815/002-000**

IP65 enclosure; Sheet steel (RAL 7035); Wx-HxD (300x120x200 mm); without flange plate

**Item No.: 850-816/002-000**

IP65 enclosure; Sheet steel (RAL 7035); Wx-HxD (400x120x200 mm); without flange plate

**Item No.: 850-817/002-000**

IP65 enclosure; Sheet steel (RAL 7035); Wx-HxD (600x120x200 mm); without flange plate