

# DeviceNet ECO Fieldbus Coupler

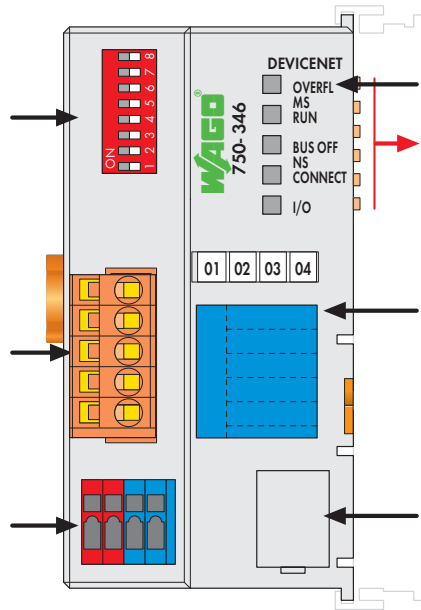
125 ... 500 Kbaud; digital and analog signals



DIP switch for MAC ID and baud rate

Fieldbus connection 231 Series (MCS)

Supply 24 V 0 V



Status indication  
-Fieldbus  
-Fieldbus note

Data contacts

Marking area

Configuration interface

The ECO fieldbus coupler is designed for applications with a reduced scale I/O requirement. Using digital only process data or small amounts of analogs, while retaining all of the choice that's offered by the Series 750 I/O.



The coupler has an integrated supply terminal for the system voltage. The field power jumper contacts are supplied via a separate supply module.

The DeviceNet™ buscoupler automatically configures, creating a local process image which may include analog, digital or specialty modules. DeviceNet™ stores the process image in the corresponding Master control (PLC, PC or NC).

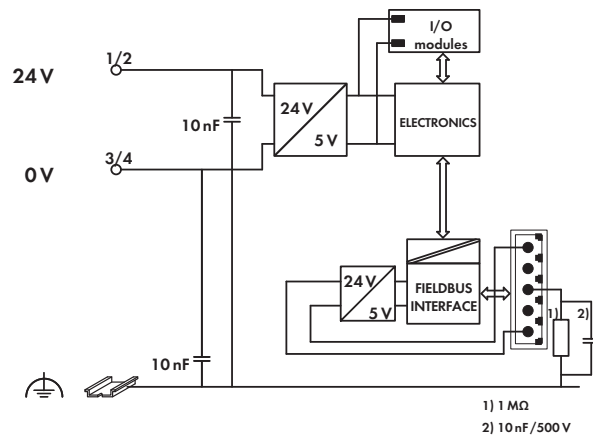
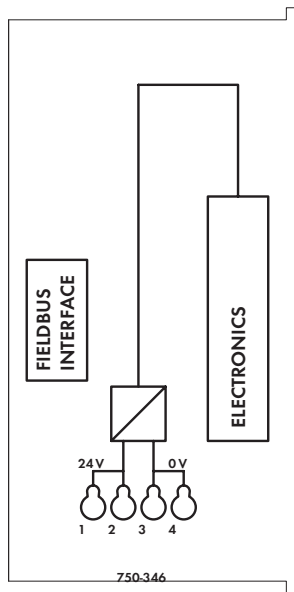
The local process image is divided into two data zones containing the data received and the data to be sent. The process data can be sent via the DeviceNet™ fieldbus to the PLC, PC or NC for further processing, and received from the field via DeviceNet™.

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.

**Notice: EDS files required**

Description	Item No.	Pack. Unit
DeviceNet ECO	750-346	1
<b>Accessories</b>		
EDS files Download: <a href="http://www.wago.com">www.wago.com</a>		
Miniature WSB Quick marking system		
	plain 248-501	5
	with marking see Section 11	
<b>Approvals</b>		
Conformity marking	CE	
Korea Certification		
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
TÜV 12.1297 X (Brazil)	Ex nA IIC T4 Gc	
TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc	
IECEX TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	

System Data	
No. of couplers connected to Master	64 with scanner
Max. no. of I/O points	approx. 6000 (depends on master)
Transmission medium	Shielded Cu cable Trunk line: 2 x 0.82 mm <sup>2</sup> + 2 x 1.7 mm <sup>2</sup> Drop line: 2 x 0.2 mm <sup>2</sup> + 2 x 0.32 mm <sup>2</sup>
Max. length of bus line	100 m ... 500 m (depends on baud rate/cable)
Baud rate	125 Kbaud, 250 Kbaud, 500 Kbaud
Buscoupler connection	5-pole male connector, 231 Series (MCS), female connector 231-305/ 010-000/ 050-000 (included)



### Technical Data

Number of I/O modules	64
Max. input process image	32 bytes
Max. output process image	32 bytes
Configuration	via PC or PLC
Power supply	24 V DC (-15 % ... +20 %)
Current consumption	
via power supply terminal (typ.) at	
nominal load (24 V)	260 mA
via DeviceNet interface	< 120 mA / 11 V
Efficiency of the power supply (typ.) at	
nominal load (24 V)	80 %
Internal current consumption (5 V)	350 mA
Total current for I/O modules (5 V)	650 mA

### General Specifications

Operating temperature	0 °C ... +55 °C
Wire connection	CAGE CLAMP <sup>®</sup>
Cross sections	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> / AWG 28 ... 14
Strip lengths	5 ... 6 mm / 0.22 in
Dimensions (mm) W x H x L	50 x 65 x 97
	Height from upper-edge of DIN 35 rail
Weight	115 g
Storage temperature	-25 °C ... +85 °C
Relative air humidity (no condensation)	95 %
Vibration resistance	acc. to IEC 60068-2-6
Shock resistance	acc. to IEC 60068-2-27
Degree of protection	IP20
EMC immunity of interference	acc. to EN 61000-6-2
EMC emission of interference	acc. to EN 61000-6-4