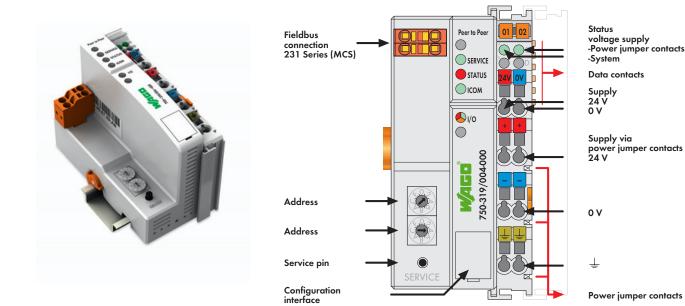
LON® Data Exchange Coupler (Peer to Peer)

78 kbps; digital and analog signals





The coupler, together with I/O modules, is a fieldbus node which is connected to other nodes by means of a twisted wire pair. The coupler can also be integrated into existing LON® networks if appropriate node addresses are available.

The coupler automatically creates the process image using the types and widths of data of the connected I/O modules. The input process image is transferred to the output process image of the partner or partners.

The monitoring system switches digital outputs off or stores the last analog value if the connection to the coupled partner is interrupted longer than 1 second.

The data exchange coupler transfers the input process image data to the output process image of the coupled partner. The data exchange coupler is a variant of the ${\sf LON}^{\scriptsize 0}$ fieldbus coupler.

Applications:

- Peer to Peer one master and one slave
- Broadcast one master and several slaves

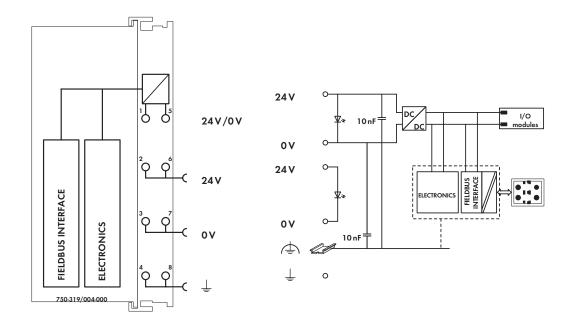
LON® is a registered trademark of Echelon Corporation.

Description		Item No.	Pack. Unit
Peer to Peer Coupler		750-319/004-000	1
Accessories		Item No.	Pack. Unit
Miniature WSB (Quick marking systen	n	
Common Co	plain	248-501	5
Commission	with marking	see pages 352 353	
baseman			
Approvals		Also see "Approvals Overview	w" in Section
Conformity marking		(E	
.®≖ UL 508			
® ANSI/ISA 12	.12.01	Class I, Div. 2, Grp. ABCD, T	4
		BR-Ex nA II T4	
€ EN 60079-0, -		I M2 / II 3 GD Ex nA nL IIC	T4
EN 61241-0, -1			

No. of couplers connected to Master	64 without repeater, 127 with repeater
Transmission medium	Twisted pair - FTT
Max. length of fieldbus segment	500 m (free topology) 2700 m (bus-
	topology)
Topology	in accordance with LON specification
Baud rate	78 kbps
Buscoupler connection	2-pole male connector, 231 Series (MCS
	female connector (231-302) (included)

System Data

LONWORKS



Technical Data	
Number of I/O modules	62
Digital signals	max. 248 (in- and outputs)
Analog signals	max. 124 (in- and outputs)
Configuration	via PC with LON Interface
Power supply	24 V DC (-15 % +20 %)
Max. input current (24 V)	500 mA
Efficiency of the power supply	87 %
Internal current consumption (5 V)	300 mA
Total current for I/O modules (5 V)	1700 mA
Isolation	500 V system/supply
Voltage via power jumper contacts	24 V DC (-15 % +20 %)
Current via power jumper contacts (max.)	10 A DC
Transceiver	FTT 10 A

Operating temperature	0 °C +55 °C
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm ² 2.5 mm ² / AWG 28 14
Stripped lengths	8 9 mm / 0.33 in
Dimensions (mm) W x H x L	51 x 65 x 100
	Height from upper-edge of DIN 35 rail
Weight	200 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: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: C € - emission of interference	acc. to EN 61000-6-4 (2007)