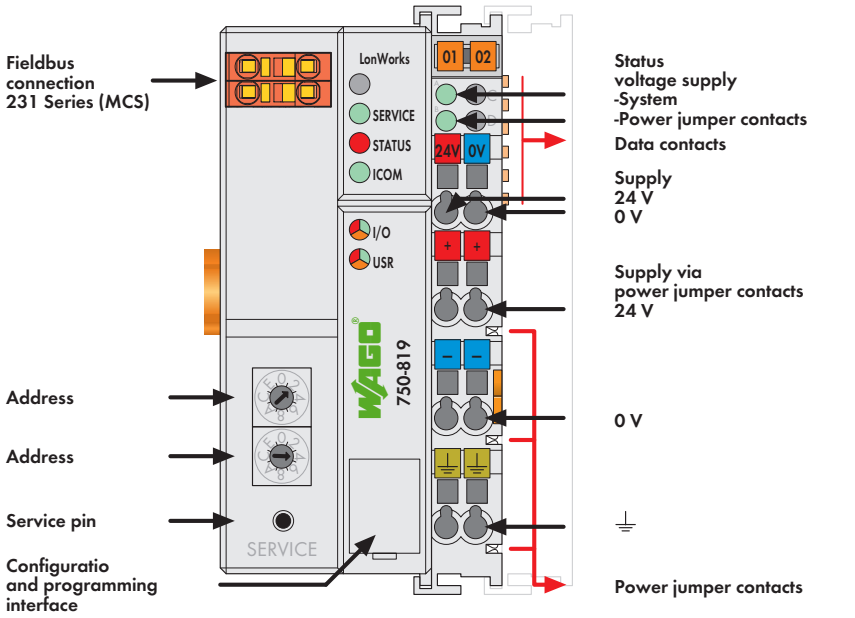
750-819

PLC - LonWorks Programmable Fieldbus Controller

16-bit CPU



The LonWorks® PLC is an expansion for the WAGO-I/O-SYSTEM.
Programming PLC applications is performed in compliance with IEC 61131-3.
The programmer can access all fieldbus and I/O data.

Features and applications:
In addition to the Neuron chip, the LonWorks® controller also has a host processor (40 MHz) that can be programmed via WAGO-I/O-PRO.
All available types of modules up to 248 digital or 124 analog input/output channels as well as modules with special functions can be addressed and handled using the program generated by WAGO-I/O-PRO.

The Neuron chip connection is made through IEC-61131-3 variables with special addresses. These can be imported via LNSTM-compliant PRIO LNS plug-in and assigned to a maximum of 52 network variables.
Any Standard Network Variable Type (SNVT) can be assigned to each of these network variables.
The PRIO LNS plug-in supports all available SNVTs from the LonMark® SNVT Master List (1-31 bytes in length).
Network variables can be assigned to any SNVTs, ensuring the best possible interoperability with LonMark®-compliant products of other manufacturers.

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TOPLON® is a registered trademark of WAGO Kontakttechnik GmbH & Co. KG

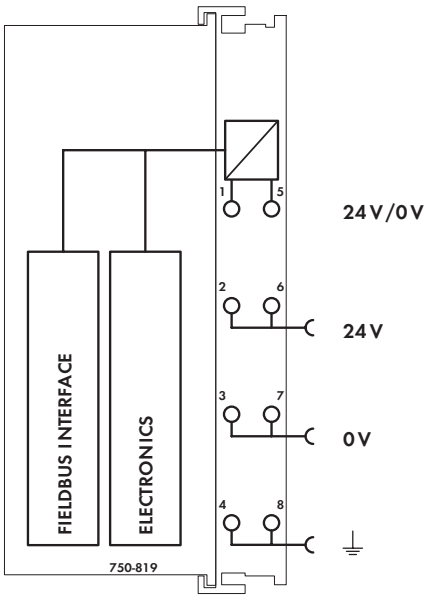
Description	Item No.	Pack. Unit
LonWorks® Controller	**750-819**	1

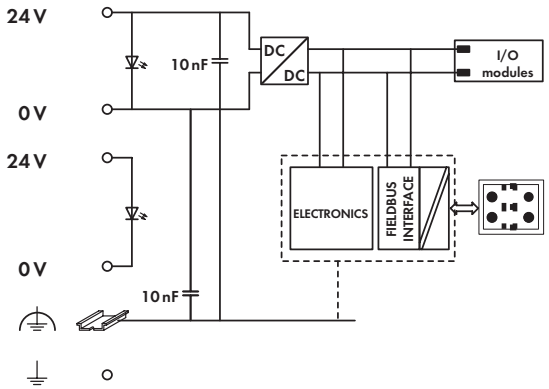
Accessories	Item No.	Pack. Unit
WAGO LNS Plug-In PRIO	see page 94	
WAGO-I/O-PRO V2.3, RS-232 kit	**759-333**	1
Miniature WSB Quick marking system		
plain	**248-501**	5
with marking	see pages 352 ... 353	

Approvals	Also see "Approvals Overview" in Section 1
Conformity marking	CE
UL 508	
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4
IEC 60079-0, -15	BR-Ex nA II T4
EN 60079-0, -15	I M2 / II 3 GD Ex nA nL IIC T4
EN 61241-0, -1	

System Data	
No. of controllers 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),
Programming	WAGO-I/O-PRO 32 (as of firmware
	SW 07 also programmable with
	WAGO-I/O-PRO V2.3)
IEC 61131-3	IL, LD, FBD, ST, FC

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
Program memory	128 Kbytes
Data memory	64 Kbytes
Non-volatile memory (retain)	7 Kbytes
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

General Specifications	
Operating temperature	0 °C ... +55 °C
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / 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	205 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: CE - emission of interference	acc. to EN 61000-6-4 (2007)