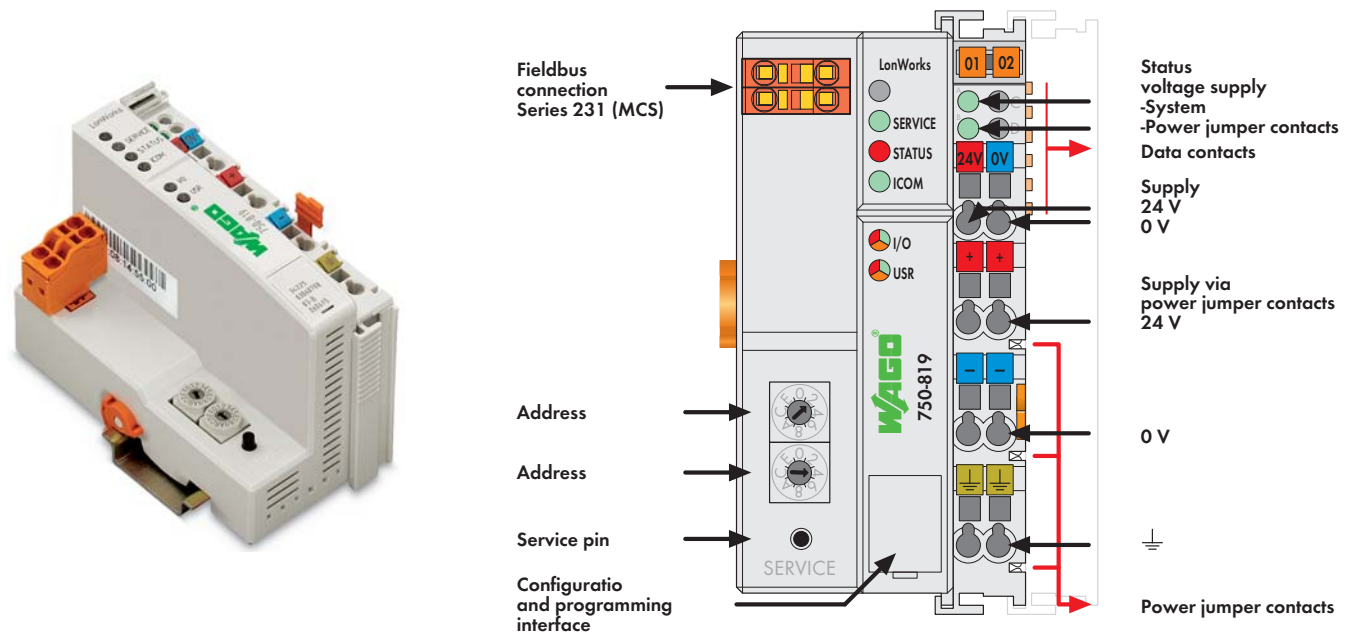


# LONWORKS® Programmable Fieldbus Controller

78 kbps; digital and analog signals



The programmable fieldbus controller for LONWORKS® is an expansion of the WAGO-I/O-SYSTEM.

Programming of the application is performed in accordance with IEC 61131-3. The programmer can access all fieldbus and I/O data.

## Characteristics and use:

In addition to the Neuron chip the LONWORKS® controller has a host processor (40 MHz) that can be programmed with WAGO-I/O-PRO. All available types of modules up to 248 digital or 124 analog inputs/outputs as well as modules with special functions can be addressed and handled using the WAGO-I/O-PRO generated program.

LON®, LONMARK®, LONWORKS® and Echelon® are registered trademarks of Echelon Corporation. LNS™ is a trademark of Echelon Corporation. TOPLON® is a registered trademark of WAGO Kontakttechnik GmbH & Co. KG

The Neuron chip connection is made through IEC 61131-3 variables with special addresses. With TOPLON® PRIO, that supports the LNS™ Plug-in standard, these variables can be read and assigned to a maximum of 51 network variables.

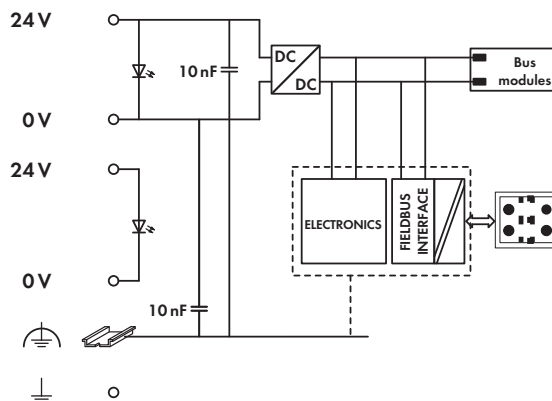
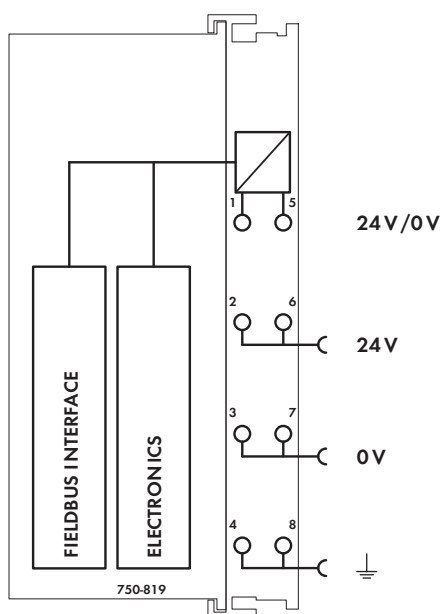
To each of these network variables any SNVT can be assigned.

The TOPLON® PRIO Plug-in supports all the SNVTs of the LONMARK® SNVT Master List (data length 1-31 bytes).

The network variables can be assigned to any SNVT ensuring the best possible interoperability between WAGO LON products and LONMARK products of other manufacturers.

Description	Item no.	Pack. unit
<b>LonWorks® Controller</b>	<b>750-819</b>	<b>1</b>
<b>Accessories</b>		
<b>WAGO TOPLON</b>	see page 231	
<b>Miniature WSB quick marking system,</b>		
plain	<b>248-501</b>	<b>5</b>
with marking	see pages 256 ... 257	
<b>Approvals</b>		
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
EN 60079-15	I M2 / II 3 GD Ex nA nL IIC T4	
	BR-Ex nA II T4	



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, Series 231 (MCS), female connector (231-302) (included)
Programming	WAGO-I/O-PRO 32 (as of firmware SW 07 also programmable with WAGO-I/O-PRO CAA)
IEC 61131-3	IL, LD, FBD, ST, FC



## Technical Data

Number of I/O modules	62
Digital signals	max. 248 (in- and output)
Analog signals	max. 124 (in- and output)
Configuration	via PC with LON Interface
Program memory	128 Kbytes
Data memory	64 Kbytes
Non-volatile memory (retain)	7 Kbytes
Voltage supply	DC 24 V (-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	DC 24 V (-15 % ... +20 %)
Current via power jumper contacts (max.)	DC 10 A
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  Immunity to interference	acc. to EN 50082-2 (1996)
EMC  Emission of interference	acc. to EN 50081-1 (1993)