

750-873

ETHERNET TCP/IP & RS-232 Programmable Fieldbus Controller

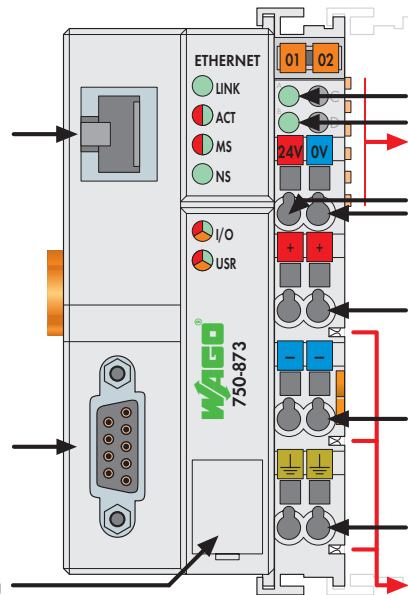
10/100 Mbits/s; digital and analog signals



Fieldbus connection RJ-45

Fieldbus connection RS-232

Configuration and programming interface



Status voltage supply -System -Power jumper contacts Data contacts

Supply 24 V 0 V

Supply via power jumper contacts 24 V


0 V



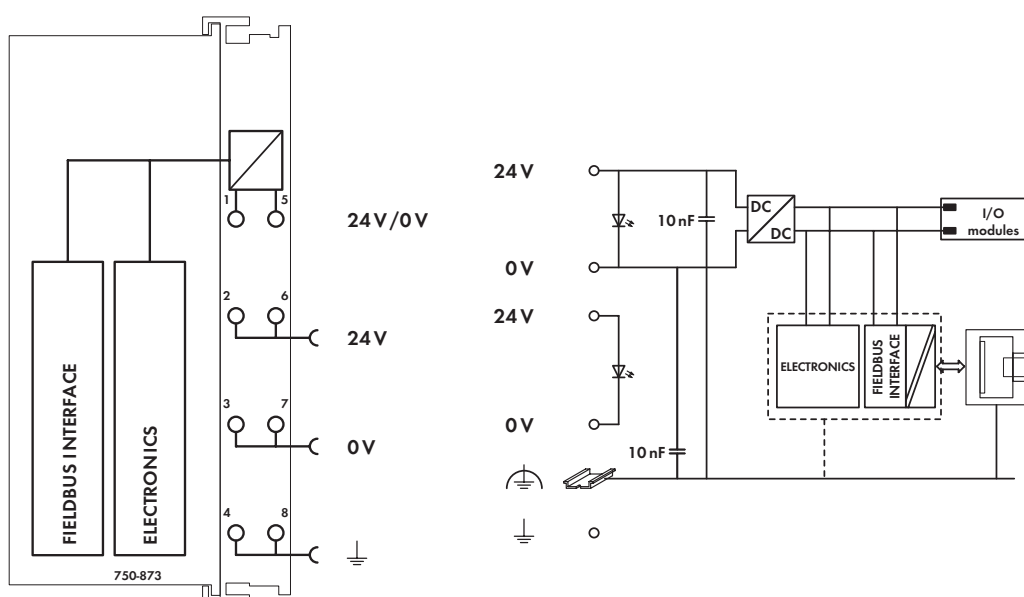
Power jumper contacts

This fieldbus controller connects the WAGO-I/O-SYSTEM to ETHERNET. The fieldbus controller automatically configures, creating a local process image that may include analog, digital or specialty modules. Analog and specialty module data is sent via words and/or bytes; digital data is sent bit by bit. This fieldbus controller permits data transmission rates of 10/100 Mbits/s and is programmable in accordance with IEC 61131-3. The controller provides 512 KB program memory, 256 KB data memory and 24 KB retain memory. It is capable of multitasking, has a battery-backed, real-time clock and is based on a 32-bit CPU.

The controller offers many different application protocols which can be used for data acquisition or control (MODBUS, ETHERNET/IP) or for system management and diagnostics (HTTP, BootP, DHCP, DNS, SNTP, FTP, SNMP and SMTP). HTML pages can be placed on an internal server for use in Web-based applications. The integrated RS-232 interface communicates with external devices. The controller can also be addressed as Modbus RTU slave via RS-232 interface.

Description	Item no.	Pack. unit
ETHERNET TCP/IP RS-232 Controller	750-873	1
Accessories		
Miniature WSB Quick marking system		
	plain	248-501
	with marking	see Full Line Catalog 08/09 Volume 3, Section 1
Approvals		
Conformity marking	CE	
UL 508		
EN 60079-15	I M2 / II 3 GD Ex nA IIC T4	
Marine applications	GL	

System Data	
System data ETHERNET:	
No. of controllers connected to Master	limited by ETHERNET specification
Transmission medium	Twisted Pair S-UTP 100 Ω Cat 5
Max. length of fieldbus segment	100 m hub station and 750-873; max. length of network limited by ETHERNET specification
Baud rate	10/100 Mbits/s
Buscoupler connection	RJ-45
Protocols	MODBUS/TCP (UDP), ETHERNET/IP, HTTP, BootP, DHCP, DNS, SNTP, FTP, SNMP
System data Serial:	
Transmission medium	shielded Cu cable 2 (4) x 0.25 mm ²
Max. length of fieldbus segment	15 m depending on the baud rate / on the cable (at 19200 baud)
Baud rate	9600 baud ... 115 200 baud
Buscoupler connection	1 x D-Sub 9; socket
Programming	WAGO-I/O-PRO CAA
IEC 61131-3	IL, LD, FBD, ST, FC



Technical Data	
Number of I/O modules with bus extension	64 250
Fieldbus	
Max. input process image	2 Kbytes
Max. output process image	2 Kbytes
Max. input variables	512 bytes
Max. Output variables	512 bytes
Configuration	via PC
Program memory	512 Kbytes
Data memory	256 Kbytes
Non-volatile memory (retain)	24 Kbytes (16 Kbytes retain, 8 Kbytes flag)
Voltage supply	DC 24 V (-25 % ... +30 %)
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 (-25 % ... +30 %)
Current via power jumper contacts (max.)	DC 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	184 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 $\overline{C}\overline{E}$ -Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC $\overline{C}\overline{E}$ -Emission of interference	acc. to EN 61000-6-3 (2007)
EMC marine applications -	
Immunity to interference	acc. to Germanischer Lloyd (2003)
EMC marine applications -	
Emission of interference	acc. to Germanischer Lloyd (2003)