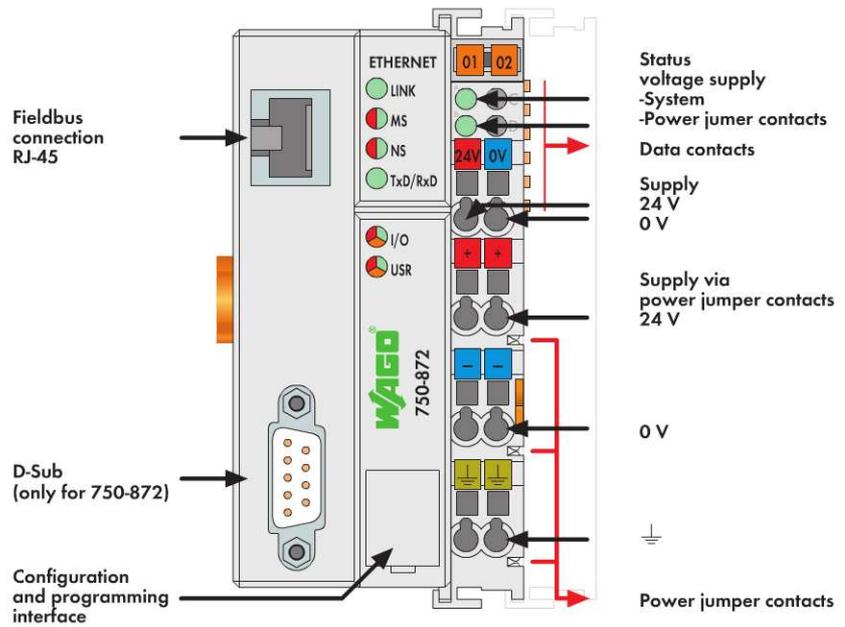


Programmable Fieldbus Controller for Telecontrol Applications

10/100 Mbit/s; digital and analog signals



The programmable fieldbus controller of the WAGO-I/O-SYSTEM meets the requirements for use in telecontrol applications.

The controller offers many different application protocols which can be used for data acquisition or control (MODBUS TCP/RTU, IEC60870-5-101/-104, 3964R, RK512, 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. Programs can be called directly via XML and ASP. Furthermore, the product incorporates library functions for e-mail, SOAP, ASP, IP configuration, ETHERNET sockets and file system.

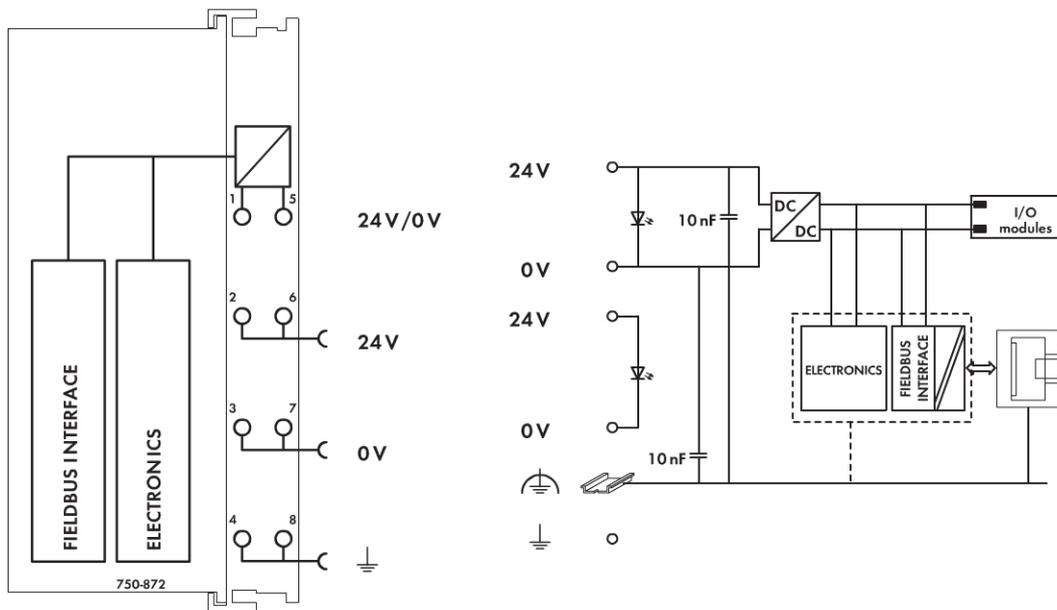
The controller, based on a 32-bit CPU, is capable of multitasking and has a battery-backed, real-time clock. Programming of the application is performed in accordance with IEC 61131-3. The programmer can access all fieldbus and I/O data.

The programmer can access the IEC60870-5-101 and -104 telecontrol protocol via function blocks using the CoDeSys program.

As an alternative, users who do not want to write a PLC program can simply parameterize the IEC 60870-5-101 and -104 telecontrol protocol within the CoDeSys environment.

Description	Item No.	Pack. Unit
Telecontrol Controller RJ-45 + D-Sub	750-872	1
Telecontrol Controller RJ-45	750-872/020-000	1
Accessories		
WAGO-I/O-PRO CAA	759-333	1
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see pages 304 ... 305	
Approvals		
Conformity marking	CE	
UL 508		
Shipbuilding	see "Approvals Overview" in section 1	

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 750-872; max. length of network limited by ETHERNET specification
Baud rate	10/100 Mbit/s
Buscoupler connection	RJ-45
Protocols	MODBUS/TCP (UDP), EtherNet/IP, HTTP, BootP, DHCP, DNS, SNTP, FTP, SNMP
System data Serial: (only for 750-872)	
No. of controllers connected to Master	limited
Transmission medium	Shielded Cu cable 2 (4) x 0.25 mm ²
Max. length of fieldbus segment	1200 m (depending on baud rate/cable)
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
Libraries	IEC 60870-5-101/-104, 3964R/RK512



Technical Data

Number of I/O modules	64
with bus extension	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)
File system	
750-872	2 Mbytes
750-872/020-000	1 Mbytes
Voltage supply	24 V DC (-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	24 V DC (-25 % ... +30 %)
Current via power jumper contacts (max.)	10 A DC
IEC60870-5-101 and -104 library:	
Document of conformity	see www.wago.com
Number of control stations	4
Number of information objects	512

General Specifications

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	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 CC -Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CC -Emission of interference	acc. to EN 61000-6-4 (2007)