

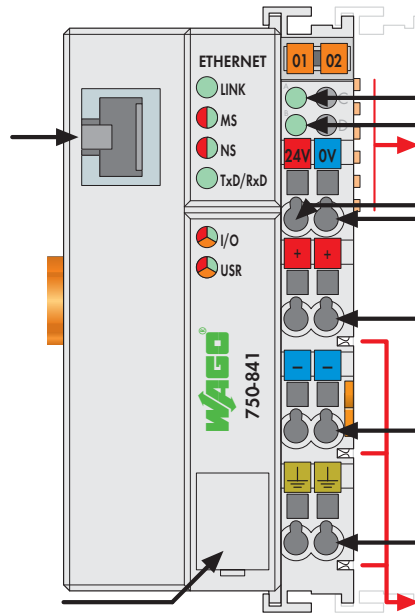
PLC - ETHERNET TCP/IP Programmable Fieldbus Controller

32-bit CPU, multitasking



Fieldbus connection RJ-45

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 PLC connects ETHERNET to the WAGO-I/O-SYSTEM.

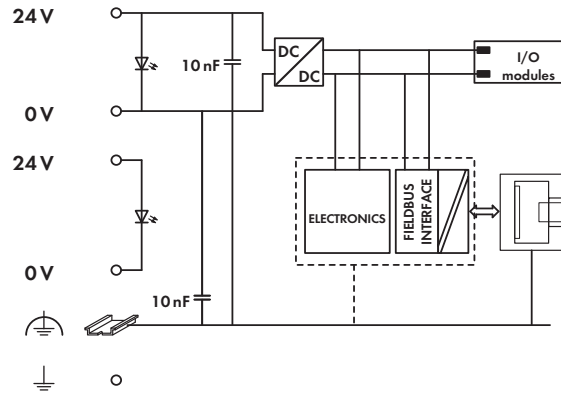
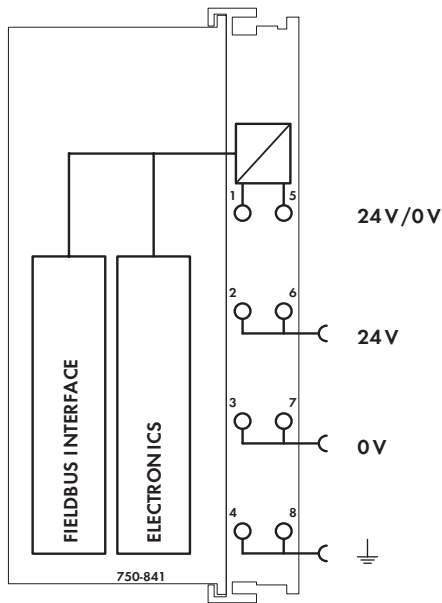
The controller automatically configures, creating a local process image which may include analog, digital or specialty modules. Analog and specialty module data is sent via words and/or bytes; digital data is sent bit by bit.

The IEC 61131-3 programmable controller is capable of 10/100 Mbit/s data rates, providing 512 KB program memory, 256 KB data memory and 24 KB retain memory. It has a battery-backed RTC and 32-bit multitasking CPU.

The PLC 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, SNMP, FTP, SMTP). For Web-based applications, HTML pages can be generated on an internal server. Programs are directly accessible via XML and ASP. Furthermore, the PLC incorporates library functions for e-mail, SOAP, ASP, IP configuration, ETHERNET sockets and file system.

Description	Item No.	Pack. Unit
<b>ETHERNET Controller 100 MBit</b>	<b>750-841</b>	<b>1</b>
Product discontinuation	Last call: 28.02.2013	
Product substitutes:	750-881, 750-880	
<b>ETHERNET Controller 100 MBit/s/T</b>	<b>750-841/025-000</b>	<b>1</b>
Extended operating temperature range: -20 °C ... +60 °C		
Product discontinuation	Last call: 28.02.2013	
Product substitutes:	750-880/025-000	
<b>Accessories</b>		
<b>WAGO-I/O-PRO V2.3, RS-232 kit</b>	<b>759-333</b>	<b>1</b>
<b>Miniature WSB Quick marking system</b>		
plain	248-501	5
with marking	siehe Seite 352 ... 353	
<b>Approvals</b>		
Also see "Approvals Overview" in Section 1		
Conformity marking	CE	
Shipbuilding (versions upon request)	ABS, BV, DNV, GL, KR, LR, NKK, PRS, RINA	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	750-841
EN 60079-0, -11, -15	I M2 Ex d I	750-841*
EN 61241-0, -1, -11	II 3 G Ex nA IIC T4	750-841*
	II 3 D Ex tD A22 IP6X T135°C	750-841*
	* Permissible operating temperature: 0°C ... +60°C	

System Data	
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 between hub station and 750-841;
	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, SNMP, FTP, SNMP, SMTP
Programming	WAGO-I/O-PRO V2.3
IEC 61131-3	IL, LD, FBD, ST, FC



### Technical Data

Number of I/O modules	64
with bus extension	250
<b>Fieldbus</b>	
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)
Power 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

### General Specifications

Operating temperature	0 °C ... +55 °C
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 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: CE - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: CE - emission of interference	acc. to EN 61000-6-4 (2007)
<b>EMC: marine applications</b>	
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