WAGO®
INNOVATIVE CONNECTIONS

10/100 Mbit/s; digital and analog signals

Address

ETHERNET

LINK ACT 1
LINK ACT 2
MS
NS
I/O
USR

8
ON
1

0: WBM
255: DHCP

750-881

X1

X2

Fieldbus connection RJ-45

Fieldbus connection RJ-45

Configuration and programming interface (with cover open)

Marking area
Status voltage supply
-System
-Power jumer contacts
Data contacts
Supply
24 V
0 V
Supply via power jumper contacts 24 V
0 V
Power jumper contacts
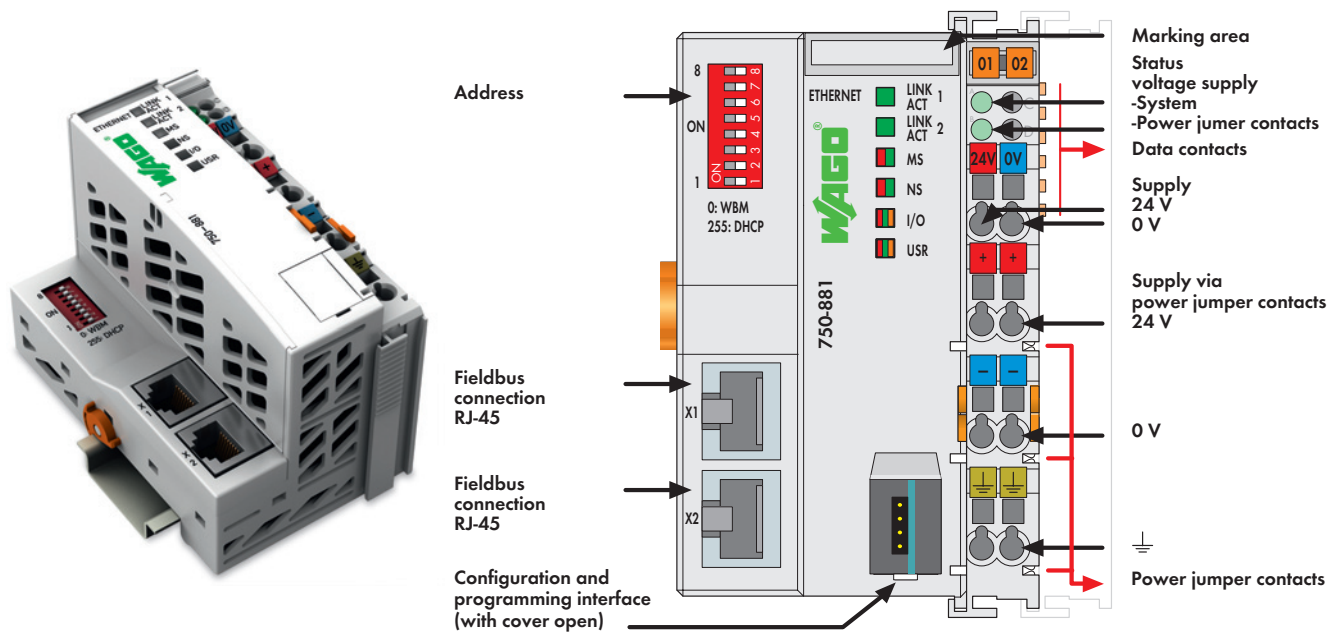
The TS400 Fieldbus Controller 832.700.500 is the starting point of every node It is extendet with the modular WAGO-I/O-SYSTEM.

The fieldbus 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.

Two ETHERNET interfaces and an integrated switch allow the fieldbus to be wired in a line topology. This eliminates additional network devices such as switches or hubs. Both interfaces support Auto-Negotiation and Auto-MDI(X).

The DIP switch configures the last byte of the IP address and may be used for IP address assignment (DHCP, BootP, static).

The controller is designed for fieldbus communication in both Ethernet/IP and MODBUS networks. It also supports a wide variety of standard ETHERNET protocols (e.g., HTTP, BootP, DHCP, DNS, SNTP, SNMP, FTP). An integrated Web server provides configuration and status information from the controller. The device, which is programmable to IEC61131-3, is capable of multitasking and has a real-time clock.

Description	Item No.	Pack. Unit
TS400 Fieldbus controller	**832.700.500**	1

Accessories	Item No.	Pack. Unit
Miniature WSB Quick marking system		
plain	**248-501**	5
with marking	see Full Line Catalog 2010/2011	
	Volume 3, Section 1	

Approvals

Conformity marking	CE	
ⓤ UL 508		
Shipbuilding	GL (Germanischer Lloyd),	
	DNV (Det Norske Veritas)	

System Data	
No. of controllers connected to Master	limited by ETHERNET specification
Transmission medium	Twisted Pair S-UTP
	100 Ω, Cat 5;
	Max. line length: 100 m
Baud rate	10/100 Mbit/s
Transmission performance	Class D acc. to EN 50173
Buscoupler connection	2 x RJ-45
Protocols	EtherNet/IP, MODBUS/TCP (UDP), HTTP,
	BootP, DHCP, DNS, SNTP, FTP, SNMP
Programming	WAGO-I/O-PRO CAA
IEC 61131-3	IL, LD, FBD, ST, FC

750-881
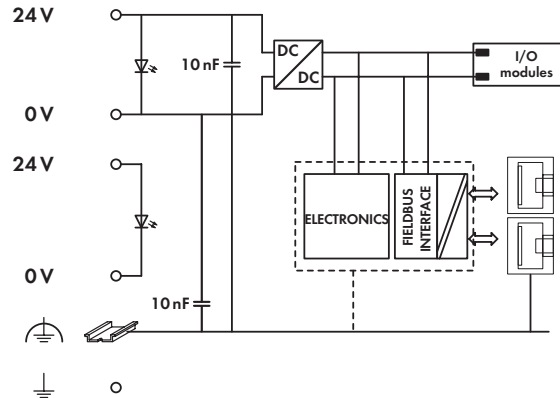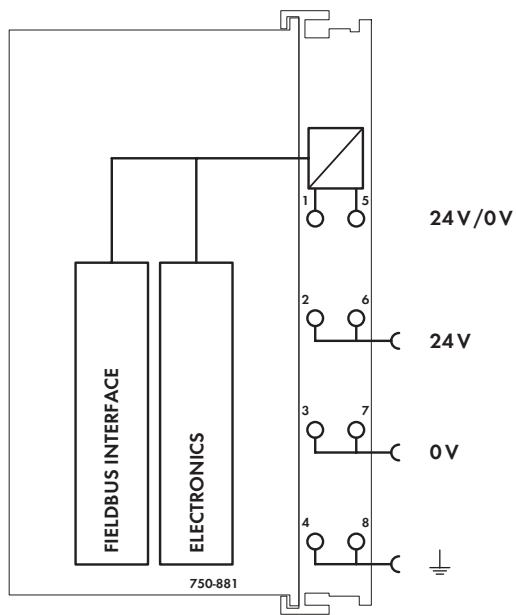
Technical Data	
Number of I/O modules	64
with bus extension	250
Fieldbus	
Max. input process image	1020 words
Max. output process image	1020 words
Configuration	via PC
Program memory	1024 Kbytes
Data memory	512 Kbytes
Non-volatile memory (retain)	32 Kbytes
Voltage supply	24 V DC (-25 % ... +30 %)
Input current typ. at rated load (24 V)	500 mA
Efficiency of the power supply (typ.) at	
nominal load (24 V)	90 %
Internal current consumption (5 V)	450 mA
Total current for I/O modules (5 V)	1700 mA
Isolation	500 V system/supply

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	62 x 65 x 100
	Height from upper-edge of DIN 35 rail
Weight	160 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: C€ - immunity to interference	acc. to EN 61000-6-2 (2005)
EMC: C€ - emission of interference	acc. to EN 61000-6-3 (2007)
EMC: marine applications	
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