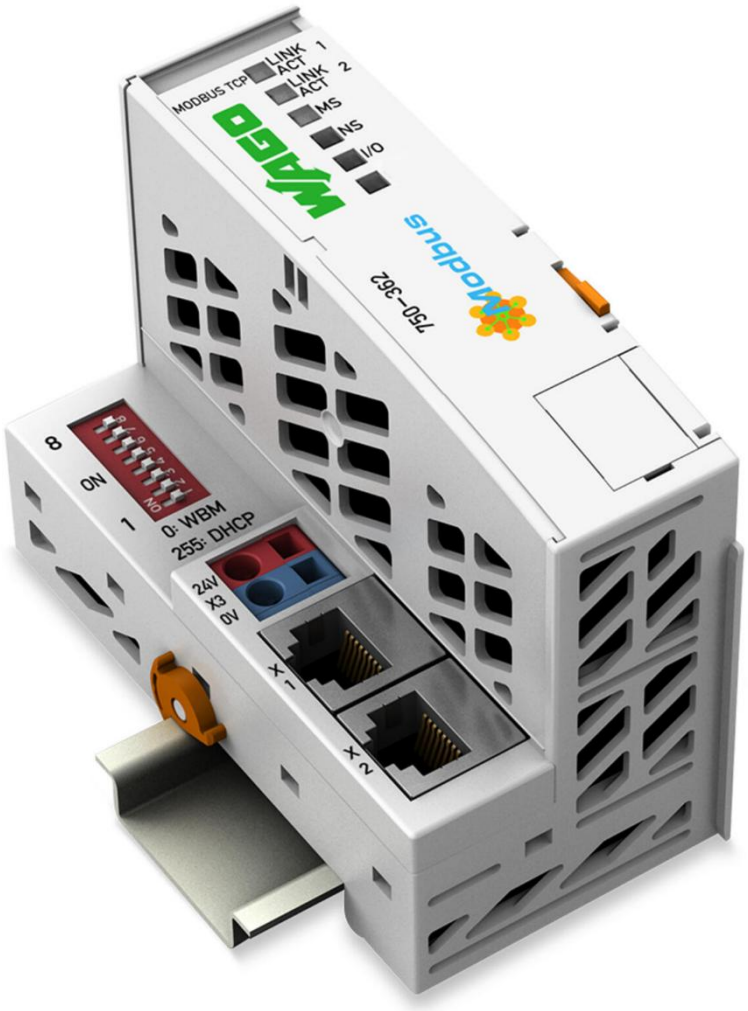
Quickstart manual

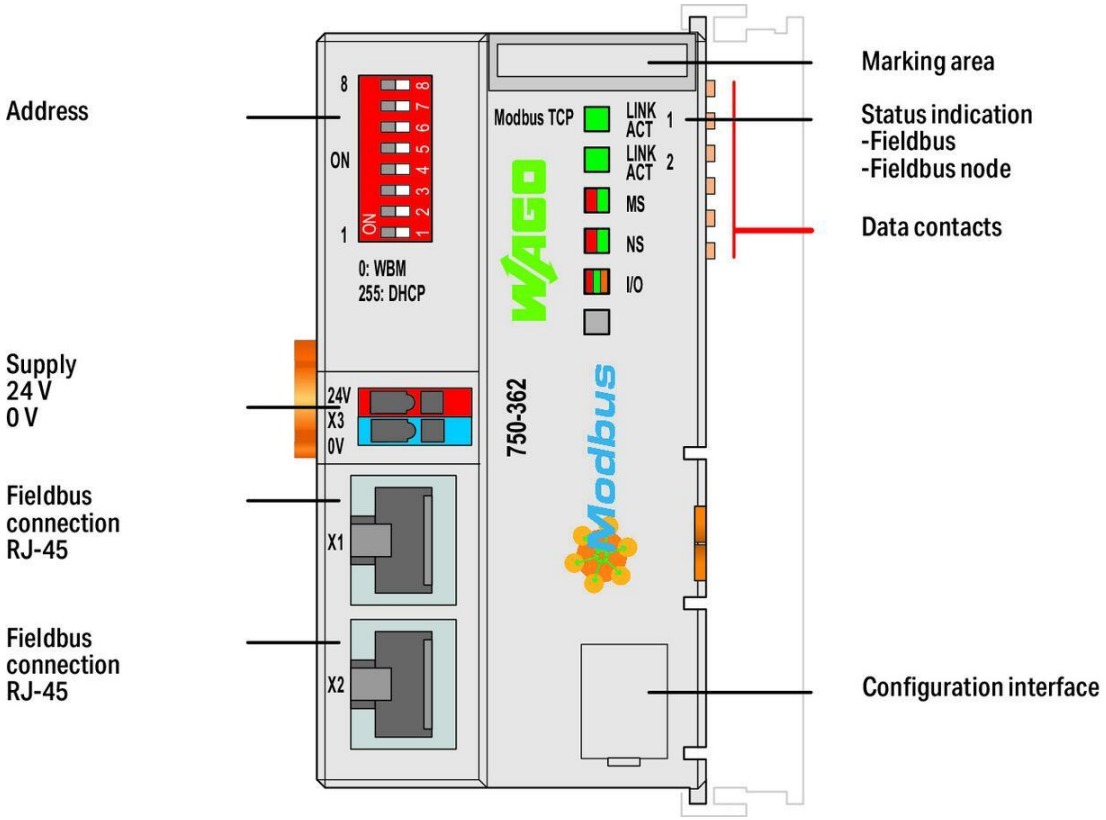


1. Product Overview

The **WAGO 750-362** is a Modbus TCP/UDP fieldbus coupler for the **WAGO I/O System 750/753**. It connects modular I/O nodes to Ethernet-based Modbus TCP networks and automatically creates a local process image for all connected I/O modules.

Key features

- Communication protocol: **Modbus TCP/UDP**
- 2 × RJ-45 Ethernet ports with **integrated switch** (line topology)
- Automatic detection of up to **64 I/O modules** (250 per node with extensions)
- Integrated web server for configuration and diagnostics
- IP configuration via **DIP switch, DHCP, BootP or static IP**
- Status indication via front LEDs



Use in a dry indoor cabinet/enclosure only.

2. Safety Requirements

- The coupler must be used **only in technically flawless condition** and within the specified ratings.
- Before installation or replacement of modules, **disconnect system supply and field supply**.
- Do not operate the device outside the permitted **ambient temperature, humidity and altitude limits**.
- The 750-362 is designed for **industrial environments** and **control cabinets** (IP20 protection).

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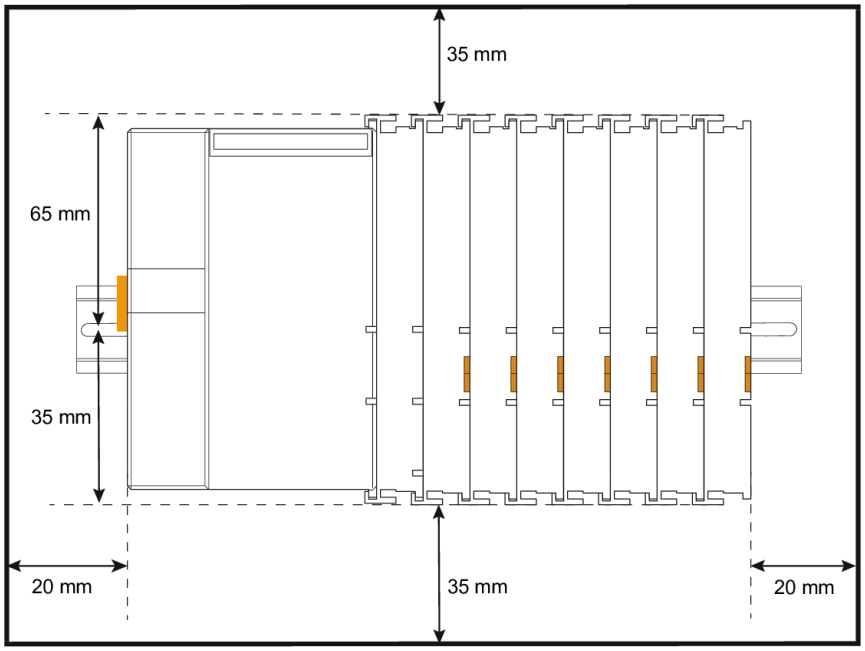
3. Mechanical Installation

Mechanical installation follows the general rules of the WAGO I/O System 750:

1. Snap the coupler onto a 35 mm DIN rail (EN 60715).
2. The coupler must be installed as the first module on the left of the I/O station.
3. Attach I/O modules to the right until the internal data bus is continuous.
4. Ensure the locking mechanism is fully engaged.

Mechanical data

- Mounting type: DIN-35 rail
- Protection class: IP20
- Orientation: vertical or horizontal

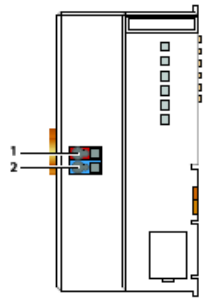


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4. Electrical Connections

4.1 System Supply

- Nominal voltage: **24 V DC (–25 % ... +30 %)**
- Connection via **CAGE CLAMP® terminals**
- Typical input current: approx. **280 mA**
- Internal electronics supply: **5 V / max. 700 mA total system supply**.



4.2 Field Supply

- The field supply for I/O modules is **not provided by the coupler**.
- Dedicated power supply modules of the 750 system must be used.
- Field power is routed via the integrated **power jumper contacts**.

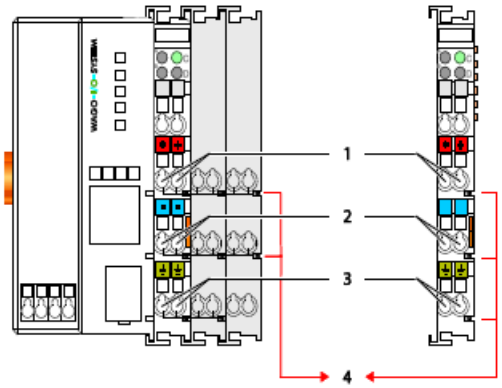


Figure 7: Field Supply (Sensor/Actuator)

Table 8: Legend for Figure "Field Supply (Sensor/Actuator) for ECO Fieldbus Coupler"

Field supply	
1	24 V (-15 % / +20 %)
2	0 V
3	Optional ground potential (functional earth)
Power jumper contacts	
4	Potential distribution to adjacent I/O modules

4.3 Ethernet Connection

- 2 × RJ-45 ports
- Auto-Negotiation, Auto-MDI(X), 100 BaseTX
- Max. cable length: **100 m (Cat.5 or higher)**
- Supported protocols include:
    - Modbus TCP / UDP
    - HTTP(S), DHCP, BootP, DNS, SNMP, FTP(S), SNTP.

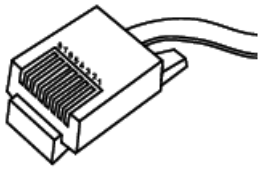


Figure 24: RJ-45 Connector

Table 14: RJ-45 Connector and RJ-45 Connector Configuration

Contact	Signal	
1	TD +	Transmit +
2	TD −	Transmit −
3	RD +	Receive +
4		free
5		free
6	RD −	Receive −
7		free
8		free

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5. First Startup / Commissioning

1. Power up the system supply.
2. The coupler performs an internal self-test.
3. All connected I/O modules are scanned and registered.
4. The internal I/O bus status is indicated by the I/O LED.
5. After successful startup, the coupler is ready for Modbus communication.

If an error occurs during startup, this is indicated by red or orange LED states, and the web server provides detailed diagnostic information.

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6. Network Configuration

6.1 IP Address Assignment

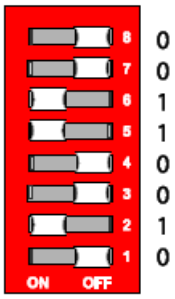
The 750-362 supports multiple IP configuration methods:

- **DIP switch**: Defines the last byte of the IP address

  The first three bytes of the IP address are specified by the fieldbus coupler/ controller. The fieldbus coupler/controller uses a static base IP address to assign the IP address via the address selector switch.
  The basic IP address can be changed via the Web-based management or WAGO Ethernet settings (in the delivery state: **192.168.1.0**).
  The subnet mask and default gateway values are taken from the static settings (as delivered: subnet mask = **255.255.255.0**, default gateway = **0.0.0.0**).

Address selection switch	Description
1 … 254	Address selection switch is enabled. The host ID is set to a fixed value between 1 … 254. The IP address consists of the static base address and the set host ID. The IP address set via the current device configuration (DHCP, BootP, static) is disabled.
0	Address selection switch is disabled. The IP address set via the current device configuration (DHCP, BootP, static) is used.
255	Address selection switch is disabled. The IP address is obtained from a DHCP server.

  1. To configure the IP address via the address selection switch by setting the host ID (last position of the IP address) to a value that does not equal 0/255, first convert the host ID to the binary representation.
  For example, host ID “50” results in a binary code of “00110010”.
  2. Set the bits in sequence using the 8 address switches. Start with address switch 1 to set bit 0 (LSB) and end with address switch 8 for bit 7 (MSB).



  3. Restart the fieldbus node after adjusting the address selection switch to apply the configuration changes.

- **DHCP**

  In delivery state of the head station, the dynamic assignment of the IP address is active by means of "Dynamic Host Configuration Protocol" (DHCP).

- **IP configuration via Ethernet Settings**

  This program is used to configure an IP address, to reset the fieldbus coupler/controller parameters to the factory settings and to restore the Flash File System in which the WBM pages of the fieldbus coupler/controller are stored. "WAGO Ethernet Settings" can be used via the serial service interface or via the ETHERNET interface.
  For initial commissioning, however, the way via the serial service interface is described here, because for access via the ETHERNET interface the currently assigned IP address must already be known.
  WAGO communication cables or WAGO radio-link adapters can be used for data communication via the serial service interface.

  Set the address selection switch to 0 for an IP assignment via software!
  Set the address selection switch to "0" to disable the DIP switch.

  Restart the fieldbus node after adjusting the address selection switch to apply the configuration changes.
  1. Using a WAGO Communication cable 750-920 respectively 750-923, connect your PC with the service interface of the head station of the fieldbus node.
  2. Start "**WAGO Ethernet Settings"** program.
  3. Click on **[Read]** to read in and identify the connected fieldbus node.
  4. Select the **Network** tab.
  5. To assign a permanent address, select the option "Static configuration" in the field **Source**.
  6. Enter the required **IP Address** and, if applicable, the address of the subnet mask and gateway.
  7. Click on the **[Write]** button to apply the settings in the fieldbus node.
  8. You can now close "WAGO Ethernet Settings" or make other changes in the Web-based Management System as required. To open the Web-based Management System click on the button **[Start WBM]** on the right side.

- **IP configuration via web interface**

Table 32: WBM User Groups

User Group	Default Password	Access Rights
admin	wago	Read/write access to all WBM pages as well as passwords modification and CODESYS application download, if this is enabled for CODESYS (WBM page "Administration"> "Security Settings"> "Enable CODESYS port authentication")
user	user	Read/write access to all WBM pages, but no write authorization on WBM-page "Administration"
guest	guest	Read only on WBM pages, no access via (S)FTP.

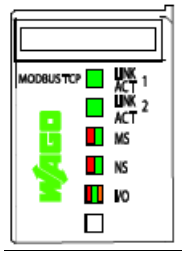
You can enable the option “IP configuration source: static” in the Web-based Management System.
1. Open the WBM via http://<IP-address>
2. Select the WBM page "TCP/IP".
3. Enter the assigned or desired settings for IP address, subnet mask and default gateway in the fields "IP address", "Subnet mask" and "Default gateway".
4. Enable the option “IP configuration source: "static".
At the same time, the use of the DHCP/BootP server is disabled.
5. Confirm your changes with button [SUBMIT].
6. Select the “Administration” WBM page.
7. Click on the button [Software Reset] at the bottom of the page in order for the settings to take effect.
Alternatively restart the fieldbus node.
Then the fieldbus node starts with the configurations and the assigned IP address, which were previously loaded into the EEPROM. The connection to the browser is interrupted.
8. Now you must use the new IP address, if you want to access again on the WBM of this fieldbus node via browser.

The selected method is evaluated during startup in the order defined in the manual.

6.2 Web-Based Management

- Access via: http://<IP-address>
- Functions include:
    - Network parameter configuration
    - Display of module configuration
    - Device and network diagnostics
    - LED and status monitoring

7. LED Quick Diagnostics



LED	Color	Meaning
LNK ACT 1	green	indicates a connection to the physical network at port 1
LNK ACT 2	green	indicates a connection to the physical network at port 2
MS	red/green	indicates the status of the node
NS	red/green	indicates the network status

LED	Color	Meaning
I/O	red/green/ orange	Indicates the operation of the node and signals via a blink code faults encountered.

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8. Reference documentation

- Datasheet : datasheet 750-362
- Manual : manual 750-362