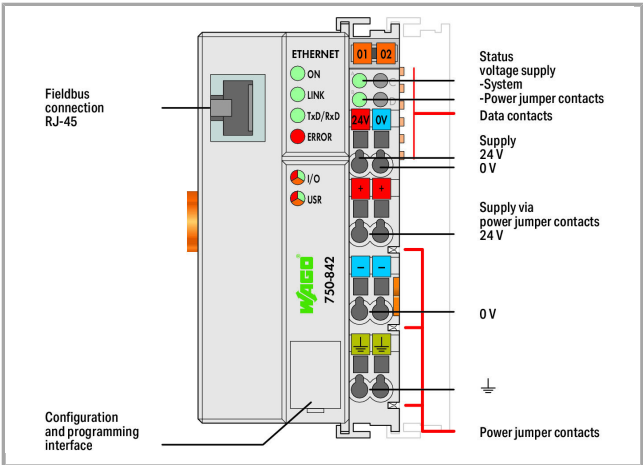
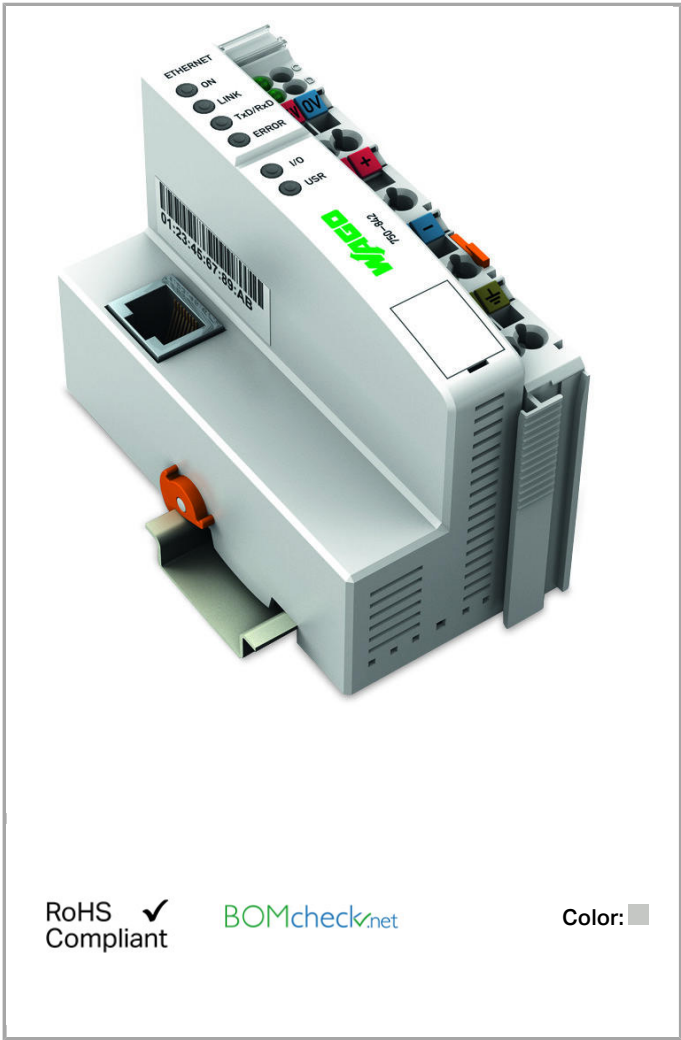


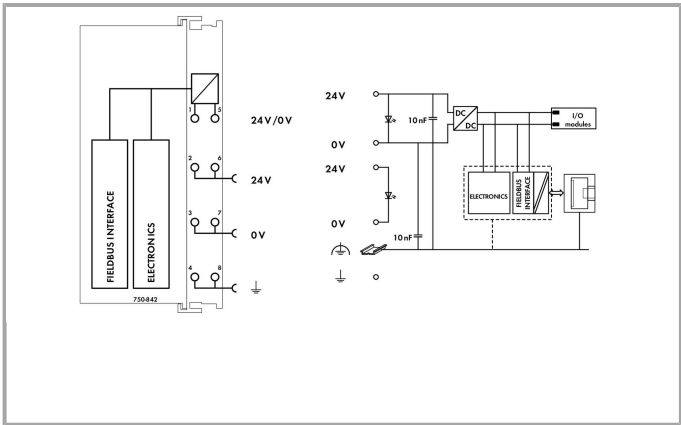
Data sheet | Item number: 750-842  
Controller ETHERNET; 1st Generation

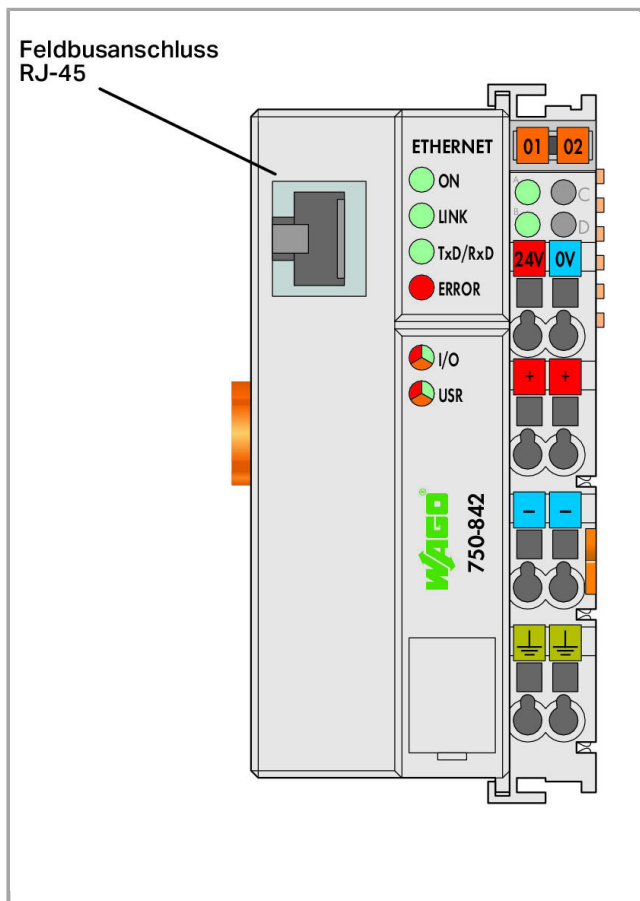


750-842



RoHS Compliant Color:





## Item description

The ETHERNET Controller combines control functionality, I/O interface and ETHERNET in one device.

Application programming is IEC 61131-3 compliant.

Function blocks allow both clients and servers to be programmed via socket APIs for all transport protocols (e.g., TCP, UDP).

Features and applications:

- Decentralized control to optimize support for a PLC or PC
- Divide complex applications into individually testable units
- Programmable fault response in the event of fieldbus failure
- Signal pre-processing to reduce fieldbus transmissions
- Directly control peripheral equipment for faster system response times
- Stand-alone, compact controller

## Data

### Technical Data

Communication

Modbus (TCP, UDP)  
Ethernet



|                                                              |                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet protocol                                            | HTTP<br>BootP                                                                                                                                                                                                                                                                  |
| Visualization                                                | without                                                                                                                                                                                                                                                                        |
| CPU                                                          | 16 bits                                                                                                                                                                                                                                                                        |
| Programming languages per IEC 61131-3                        | Instruction List (IL)<br>Ladder Diagram (LD)<br>Function Block Diagram (FBD), Continuous Function Chart (CFC)<br>Structured Text (ST)<br>Sequential Function Chart (SFC)                                                                                                       |
| Programming environment                                      | WAGO-I/O-PRO V2.3 (based on CODESYS V2.3)                                                                                                                                                                                                                                      |
| Configuration options                                        | WAGO-I/O-CHECK                                                                                                                                                                                                                                                                 |
| Cycle time                                                   | < 3ms for 1,000 statements / 256 dig. I/Os                                                                                                                                                                                                                                     |
| Baud rate                                                    | -                                                                                                                                                                                                                                                                              |
| Fieldbus segment length max.                                 | 100 m                                                                                                                                                                                                                                                                          |
| Transmission medium (communication/fieldbus)                 | Twisted Pair S-UTP; 100 Ω; Cat. 5                                                                                                                                                                                                                                              |
| Program memory                                               | 128 kByte                                                                                                                                                                                                                                                                      |
| Data memory                                                  | 64 kByte                                                                                                                                                                                                                                                                       |
| Software non-volatile memory                                 | 8 Kbytes                                                                                                                                                                                                                                                                       |
| Memory for fieldbus input variables max.                     | 512 Byte                                                                                                                                                                                                                                                                       |
| Memory for fieldbus output variables max.                    | 512 Byte                                                                                                                                                                                                                                                                       |
| Number of modules per node max.                              | 64                                                                                                                                                                                                                                                                             |
| Input and output process image (Fieldbus) max.               | 512 Byte/512 Byte                                                                                                                                                                                                                                                              |
| Indicators                                                   | LED (ON, LINK, TxD/RxD) green: Fieldbus initialization, network connection, data exchange; LED (ERROR) red: Fieldbus error; LED (I/O, USR) red/green/orange: Internal data bus status, status programmable by user; LED (A, B) green: System power supply status, field supply |
| System supply voltage                                        | DC 24 V(-25 ... +30 %); via wiring level (CAGE CLAMP® connection)                                                                                                                                                                                                              |
| Input current typ. at rated load (24 V)                      | 500 mA                                                                                                                                                                                                                                                                         |
| Efficiency of the power supply (typ.) at nominal load (24 V) | 87 %                                                                                                                                                                                                                                                                           |
| Current consumption, system supply (5 V)                     | 200 mA                                                                                                                                                                                                                                                                         |
| Total current for system supply                              | 1800 mA                                                                                                                                                                                                                                                                        |
| Field supply voltage                                         | DC 24 V (-25 ... +30 %); via power jumper contacts                                                                                                                                                                                                                             |
| Current carrying capacity of the power jumper contacts       | 10 A                                                                                                                                                                                                                                                                           |
| Number of outgoing power jumper contacts                     | 3                                                                                                                                                                                                                                                                              |
| Isolation                                                    | 500 V system/supply                                                                                                                                                                                                                                                            |

## Connection data

|                                               |                           |
|-----------------------------------------------|---------------------------|
| Connection technology: communication/fieldbus | Modbus TCP/UDP: 1 x RJ-45 |
| Connection technology: system supply          | 2 x CAGE CLAMP®           |
| Connection technology: field supply           | 6 x CAGE CLAMP®           |
| Connection type (1)                           | System/field supply       |



|                                             |                                              |
|---------------------------------------------|----------------------------------------------|
| Solid conductor                             | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor                     | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Strip length                                | 8 ... 9 mm / 0.31 ... 0.35 inch              |
| Connection technology: Device configuration | 1 x 4-pole male connector                    |

## Geometrical Data

|                                       |                      |
|---------------------------------------|----------------------|
| Width                                 | 50.5 mm / 1.988 inch |
| Height                                | 71.1 mm / 2.799 inch |
| Height from upper-edge of DIN-35 rail | 63.9 mm / 2.516 inch |
| Depth                                 | 100 mm / 3.937 inch  |

## Mechanical data

|                    |                              |
|--------------------|------------------------------|
| Weight             | 179 g                        |
| Color              | light gray                   |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Conformity marking | 1                            |

## Environmental Requirements

|                                                                                    |                                                                                                                    |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Surrounding air (operating) temperature                                            | 0 ... 55 °C                                                                                                        |
| Surrounding air (storage) temperature                                              | -40 ... 85 °C                                                                                                      |
| Protection class                                                                   | IP20                                                                                                               |
| Degree of pollution (5)                                                            | 2 per IEC 61131-2                                                                                                  |
| Operating altitude                                                                 | without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); max.: 5000 m |
| Relative air humidity (no condensation)                                            | 95 %                                                                                                               |
| Mounting position                                                                  | any                                                                                                                |
| Type of mounting                                                                   | DIN-35 rail                                                                                                        |
| Vibration resistance                                                               | 4g per IEC 60068-2-6                                                                                               |
| Shock resistance                                                                   | 15g per IEC 60068-2-27                                                                                             |
| EMC immunity to interference                                                       | acc. to EN 61000-6-2, marine applications                                                                          |
| EMC emission of interference                                                       | acc. to EN 61000-6-4, marine applications                                                                          |
| Exposure to pollutants                                                             | Per IEC 60068-2-42 and IEC 60068-2-43                                                                              |
| Fire load                                                                          | 3.166 MJ                                                                                                           |
| Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 % | 10 ppm                                                                                                             |
| Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %  | 25 ppm                                                                                                             |

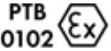
## Commercial data

|               |                 |
|---------------|-----------------|
| Product Group | 15 (Remote I/O) |
|---------------|-----------------|

|                    |               |
|--------------------|---------------|
| Country of origin  | DE            |
| GTIN               | 4045454527198 |
| Customs Tariff No. | 85371091990   |

## Approvals / Certificates

### Ex-Approvals

| Logo                                                                             | Approval                                | Additional Approval Text | Certificate name                  |
|----------------------------------------------------------------------------------|-----------------------------------------|--------------------------|-----------------------------------|
|  | <b>ATEX</b><br>TUEV Nord Cert GmbH      | EN 60079-0               | TÜV 07<br>ATEX<br>554086 X<br>en. |
|  | <b>TUEV Nord</b><br>TUEV Nord Cert GmbH | IEC 60079-0              | IECEx<br>TUN<br>09.0001 X         |

### Country specific Approvals

| Logo                                                                              | Approval                                    | Additional Approval Text | Certificate name            |
|-----------------------------------------------------------------------------------|---------------------------------------------|--------------------------|-----------------------------|
|  | <b>KC</b><br>National Radio Research Agency | Article 58-2, Clause 3   | MSIP-<br>REM-W43-<br>PFC750 |

### Ship Approvals

| Logo                                                                                | Approval                                                | Additional Approval Text | Certificate name   |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|--------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1821926   |
|  | <b>BV</b><br>Bureau Veritas S.A.                        | -                        | 13453/DO BV        |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194         |
|   | <b>KR</b><br>Korean Register of Shipping                | -                        | HMB05880-<br>AC001 |
|                                                                                     | <b>LR</b><br>Lloyds Register                            | -                        | 02/20026 (E5)      |



|                                                                                  |                                      |   |                       |
|----------------------------------------------------------------------------------|--------------------------------------|---|-----------------------|
|  | <b>NK</b><br>Nippon Kaiji Kyokai     | - | TA17255M              |
|  | <b>PRS</b><br>Polski Rejestr Statków | - | TE/2236<br>/880590/19 |
|  | <b>RINA</b><br>RINA Germany GmbH     | - | ELE134212XG           |

## UL-Approvals

| Logo                                                                              | Approval                                                            | Additional Approval Text | Certificate name |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------|------------------|
|  | <b>UL</b><br>UL International Netherlands B.V. (ORDINARY LOCATIONS) | UL 508                   | E175199<br>Sec.1 |

## Compatible products

## software

|                                                                                    |                                                    |                     |
|------------------------------------------------------------------------------------|----------------------------------------------------|---------------------|
|  | Item no.: 759-333<br>WAGO-I/O-PRO                  | 759-333             |
|  | Item no.: 759-333/000-923<br>WAGO-I/O-PRO; USB-Set | 759-333<br>/000-923 |
|  | Item no.: 759-911<br>WAGO-I/O-PRO; CD              | 759-911             |

## General accessories

|                                                                                    |                                                                        |         |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------|
|  | Item no.: 750-921<br>Bluetooth® Adapter                                | 750-921 |
|  | Item no.: 750-923<br>Configuration cable; USB connector; Length: 2.5 m | 750-923 |



**Item no.: 750-923/000-001**  
Configuration cable; USB connector; Length: 5 m

750-923

/000-001

## system box



**Item no.: 850-804**  
IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip

850-804



**Item no.: 850-804/000-001**  
IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip

850-804

/000-001



**Item no.: 850-805**  
IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip

850-805



**Item no.: 850-814/002-000**  
IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate

850-814

/002-000



**Item no.: 850-815/002-000**  
IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate

850-815

/002-000



**Item no.: 850-816/002-000**  
IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate

850-816

/002-000



**Item no.: 850-817/002-000**  
IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate

850-817

/002-000



**Item no.: 850-825**  
IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20

850-825



**Item no.: 850-826**  
IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

850-826



**Item no.: 850-826/002-000**  
IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

850-826

/002-000



**Item no.: 850-827**  
IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

850-827



**Item no.: 850-827/002-000**  
IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

850-827

/002-000



**Item no.: 850-828**  
IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

850-828



**Item no.: 850-828/002-000**  
IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

850-828

/002-000



**Item no.: 850-834**  
IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20

850-834

**Item no.: 850-835**

IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip

850-835

**Item no.: 850-836**

IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

850-836

**Marking accessories****Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

2009-145

**Item no.: 2009-145/000-002**

Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/000-002

2009-145

**Item no.: 2009-145/000-005**

Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/000-005

2009-145

**Item no.: 2009-145/000-006**

Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/000-006

2009-145

**Item no.: 2009-145/000-007**

Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/000-007

2009-145

**Item no.: 2009-145/000-012**

Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/000-012

2009-145

**Item no.: 2009-145/000-023**

Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/000-023

2009-145

**Item no.: 2009-145/000-024**

Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type

/000-024

2009-145

**Item no.: 248-501**

Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card

248-501

**Item no.: 248-501/000-002**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-002

248-501

**Item no.: 248-501/000-005**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-005

248-501

**Item no.: 248-501/000-006**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-006

248-501

**Item no.: 248-501/000-007**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-007

248-501



**Item no.: 248-501/000-012**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-012

248-501



**Item no.: 248-501/000-017**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-017

248-501



**Item no.: 248-501/000-023**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-023

248-501



**Item no.: 248-501/000-024**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type

/000-024

248-501



**Item no.: 750-100**  
Marker card; as a DIN A4 sheet; plain

750-100



**Item no.: 750-103**  
Group marker carrier

750-103



**Item no.: 750-106**  
Group marker carrier

750-106

#### Carrier rail



**Item no.: 210-112**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm

210-112



**Item no.: 210-113**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715

210-113



**Item no.: 210-114**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715

210-114



**Item no.: 210-115**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm

210-115



**Item no.: 210-118**  
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715

210-118



**Item no.: 210-196**  
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715

210-196



**Item no.: 210-197**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715

210-197



**Item no.: 210-198**  
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715

210-198



**Item no.: 210-504**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715

210-504



**Item no.: 210-505**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715

210-505



**Item no.: 210-506**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715

210-506

**Item no.: 210-508**

210-508

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715

**wiring and connectors****Item no.: 750-975**

750-975

ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

**Item no.: 750-977/000-011**

750-977

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22

/000-011

**Item no.: 750-977/000-012**

750-977

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22

/000-012

**Item no.: 750-977/000-021**

750-977

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24

/000-021

**Item no.: 750-977/000-022**

750-977

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24

/000-022

**Item no.: 750-978/000-011**

750-978

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief

/000-011

**Item no.: 750-978/000-012**

750-978

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief

/000-012

**Item no.: 750-978/000-021**

750-978

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief

/000-021

**Item no.: 750-978/000-022**

750-978

Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief

/000-022

**Item no.: 750-979/000-011**

750-979

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief

/000-011

**Item no.: 750-979/000-012**

750-979

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief

/000-012

**Item no.: 750-979/000-021**

750-979

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief

/000-021

**Item no.: 750-979/000-022**

750-979

Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief

/000-022

**shield connection****Item no.: 790-108**

790-108

Shield clamping saddle; 11 mm wide; diameter of compatible conductor

|                                                                                  |                                                                                                               |         |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|
|  | <b>Item no.: 790-116</b><br>Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm | 790-116 |
|  | <b>Item no.: 790-124</b><br>Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm | 790-124 |
|  | <b>Item no.: 790-140</b><br>Shield clamping saddle; diameter of compatible conductor                          | 790-140 |
|  | <b>Item no.: 790-208</b><br>Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm                                  | 790-208 |
|  | <b>Item no.: 790-216</b><br>Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm                                 | 790-216 |
|  | <b>Item no.: 790-220</b><br>Shield clamping saddle; 30 mm wide; 6 ... 20 mm                                   | 790-220 |

## Downloads

### Documentation

#### Manual

|                                                                                           |         |               |          |
|-------------------------------------------------------------------------------------------|---------|---------------|----------|
| ETHERNET TCP/IP Programmable Fieldbus Controller<br>10 Mbit/s; digital and analog signals | V 2.3.0 | pdf<br>5.9 MB | Download |
|-------------------------------------------------------------------------------------------|---------|---------------|----------|

#### Quick-Start Guide

|                                                  |         |                 |          |
|--------------------------------------------------|---------|-----------------|----------|
| Quick Start ETHERNET Fieldbus Controller 750-842 | V 1.0.3 | pdf<br>425.0 kB | Download |
|--------------------------------------------------|---------|-----------------|----------|

#### Bid Text

|                           |             |                |          |
|---------------------------|-------------|----------------|----------|
| 750-842<br>IO, Controller | Apr 4, 2012 | doc<br>33.8 kB | Download |
|---------------------------|-------------|----------------|----------|

#### Additional Information

|                                                          |         |                 |          |
|----------------------------------------------------------|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |
|----------------------------------------------------------|---------|-----------------|----------|

#### System Description

|                                                                                        |         |                 |          |
|----------------------------------------------------------------------------------------|---------|-----------------|----------|
| 750 Controller, General Product Information                                            |         | pdf<br>621.9 kB | Download |
| Use in Hazardous Environments<br>Term definition, marking and installation regulations | V 1.0.0 | pdf<br>1.0 MB   | Download |
| Overview on WAGO-I/O-SYSTEM 750 approvals                                              |         | pdf<br>780.2 kB | Download |
| Design Notes                                                                           | V 2.0.0 | pdf             | Download |

## Application Notes

### Application Note CoDeSys 2.3

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |          |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------|
| HART-Module 750-482 on the ETHERNET-Controller (a116100)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | V1.0.0 | zip      | Download |
| <p>This application note describes the connection of any HART sensor to the WAGO ETHERNET Controller 750-841 using the TH102 from ABB, for example. The connection is made via the HART Module 750-482 and "WagoLibHART_03.lib" CODESYS library. Section 3 describes the creation of a PLC program that reads and processes data from the HART sensor cyclically. Section 4 describes the execution of device-specific HART commands, e.g., Promag23 from Endress&amp;Hauser. Section 5 describes the parameterization of the HART sensor from the FDT/DTM frame application "WAGOframe".</p> |        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | 898.1 kB |          |

### Application note, other

|                                                                                                                                                                                                                                                                                                                                                                   |        |          |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------|
| Anbindung an MCPS Datenerfassungs Software (a116400)                                                                                                                                                                                                                                                                                                              | V1.1.1 | zip      | Download |
| <p>MCPS (Multi Channel Process System) ist eine PC-basierte Datenerfassungssoftware, die auf den Betriebssystemen Windows2000, XP, Vista oder höher läuft. Alle Meß- und Auswerteaufgaben werden allein durch Konfiguration der Software vorgenommen. MCPS ist KEINE grafische Programmieroberfläche und kann somit leicht von jedem Anwender bedient werden.</p> |        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                   |        | 405.5 kB |          |

## Libraries

### Library

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------|
| Condition monitoring with 750-645                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | V1.0.1 | zip      | Download |
| <p>The WagoLib_VIO.lib library provides a function block which allows to configure the module 750-645.</p>                                                                                                                                                                                                                                                                                                                                                                                                          |        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 112.8 kB |          |
| Modbusmaster for Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V1.0.0 | zip      | Download |
| <p>The ModbusEthernet_04.lib library provides the user with the two function modules, ETHERNET_MODBUSMASTER_UDP and ETHERNET_MODBUSMASTER_TCP. With these modules, a data exchange can be set up with several Modbus TCP / UDP slaves. The ETHERNET_MODBUSMASTER_UDP module should be used in preference, as this enables faster data transfer. The ETHERNET_TERMINAL_MODBUSSLAVE module is also included in the library. This module provides a Modbus server, which maps the Modbus services to a word array.</p> |        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 418.7 kB |          |
| Control DC motor with 750-636                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | V1.0.0 | zip      | Download |
| <p>The MC1_DC_Control.lib library provides a function block which allows to configure the module 750-636 as well as to operate a DC motor.</p>                                                                                                                                                                                                                                                                                                                                                                      |        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 150.5 kB |          |
| Sending E-Mails based on Ethernet.lib                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V1.0.1 | zip      | Download |
| <p>Sending E-Mails with an 750-842 based on the Ethernet.lib.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        | 318.7 kB |          |

Connecting HART-Modules 750-482 and 750-484



The library WagoLibHART\_03.lib offers a set of function blocks to execute HART-commands (Revision 5) in a PLC program. The principal item of this library is program HART\_INFO, it identifies connected HART modules like 750-482 and coordinates the Kbus access. In addition you find with HART\_FDT program that act as counterpart to WAGO-ModbusTCP-HART-DTM, who enable configuration of HART devices with every FDT-Frameapplication like WAGOframe.

V3.1.0

zip  
331.0 kB[Download](#)

## Engineering-Software

### Configuration and Commissioning Software

|                                                             |                         |                 |                          |
|-------------------------------------------------------------|-------------------------|-----------------|--------------------------|
| WAGO BootPServer / 750 and 767 Series                       | 1.0<br>Mar 7, 2000      | zip<br>1.1 MB   | <a href="#">Download</a> |
| WAGO-IO-PRO Demo-Version (759-912) / Serie 750, 758 und 762 | 2.3.9.55<br>Jul 3, 2015 | zip<br>108.3 MB | <a href="#">Download</a> |
| WAGO Ethernet Settings / 750 Series<br>759-316              | 6.8.2.2<br>Aug 5, 2015  | exe<br>16.0 MB  | <a href="#">Download</a> |
| WAGO Extension Setting / 750 Series                         | 2.0.2<br>Mar 9, 2011    | zip<br>5.4 MB   | <a href="#">Download</a> |

## Runtime Software

### Firmware

|                                                       |                    |                 |                          |
|-------------------------------------------------------|--------------------|-----------------|--------------------------|
| Firmware: 750-842 Controller ETHERNET; 1st Generation | 19<br>Feb 26, 2018 | zip<br>624.8 kB | <a href="#">Download</a> |
|-------------------------------------------------------|--------------------|-----------------|--------------------------|

## CAD/CAE - Smart Data

### CAD data

|                     |  |     |                          |
|---------------------|--|-----|--------------------------|
| 3D Download 750-842 |  | URL | <a href="#">Download</a> |
|---------------------|--|-----|--------------------------|

## Device Files

### Device Description File

|                                               |                    |               |                          |
|-----------------------------------------------|--------------------|---------------|--------------------------|
| MIB file for Ethernet controller / 750 Series | 2.0<br>Apr 3, 2012 | zip<br>6.1 kB | <a href="#">Download</a> |
|-----------------------------------------------|--------------------|---------------|--------------------------|

### Device Driver

|                                                               |                         |               |                          |
|---------------------------------------------------------------|-------------------------|---------------|--------------------------|
| WAGO USB Service Cable Driver / 750 and 857 Series<br>759-923 | 6.5.3.0<br>Sep 10, 2014 | zip<br>4.8 MB | <a href="#">Download</a> |
|---------------------------------------------------------------|-------------------------|---------------|--------------------------|



## Product family

### Controller 750

[Learn more about the product family.](#)

[Show all products from the family](#)

Subject to changes.

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