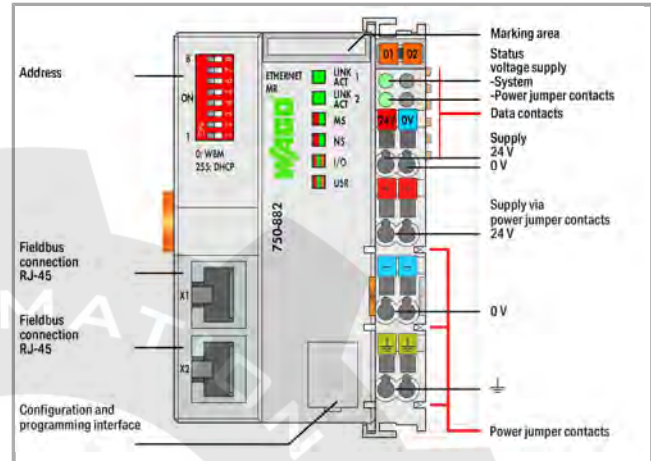
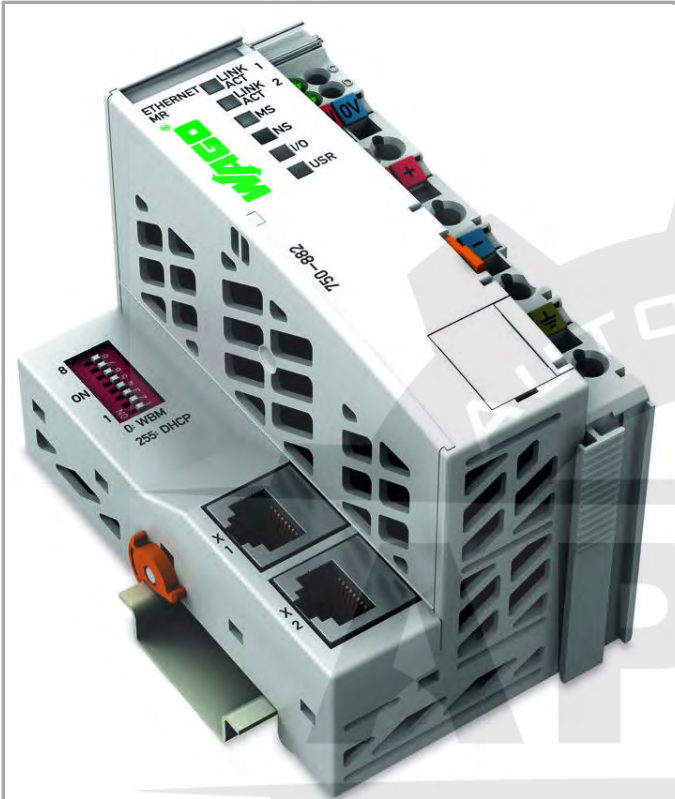


Data sheet | Item number: 750-882  
Controller ETHERNET; 3rd Generation; Media Redundancy



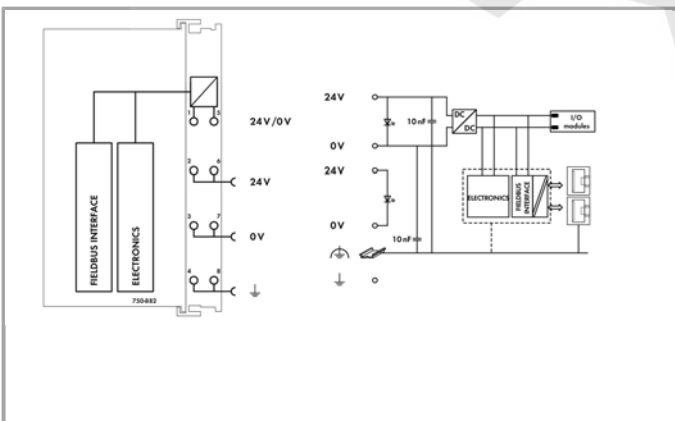
750-882

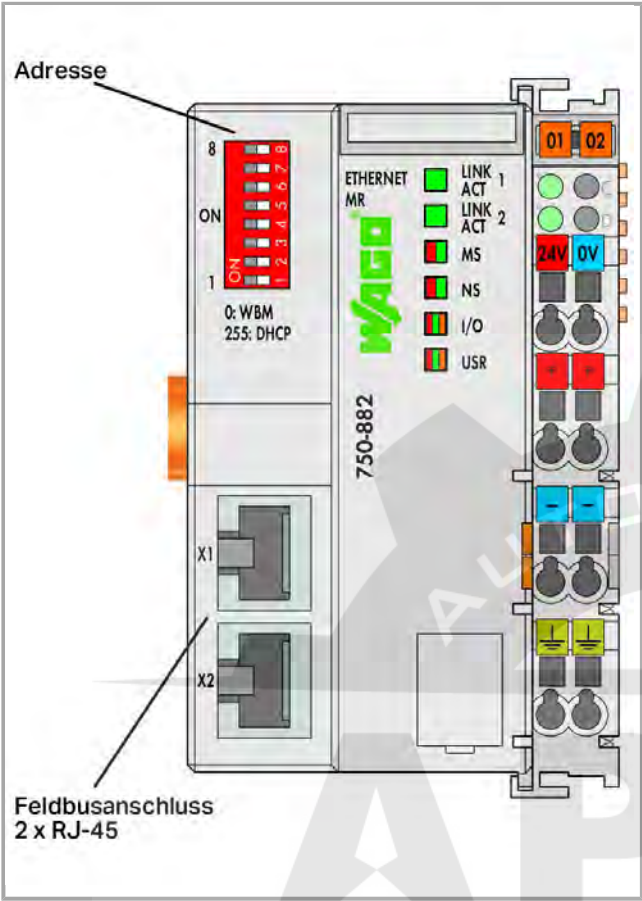


RoHS  
Compliant

BOMcheck.net

Color: ■





Item description

In conjunction with the WAGO-I/O-SYSTEM, the ETHERNET Controller serves ETHERNET networks requiring fast and safe media redundancy. The controller supports all digital, analog and specialty modules found within the 750/753 Series, and is suitable for data rates of 10/100 Mbit/s.

Media redundancy is achieved by operating the controller in two separate networks – which is accessible via two different IP addresses (including two MAC IDs). Cross communication between separate channels is not possible. The two separate ETHERNET interfaces allow redundant connection of two transmission paths (no hub or switch required). Both interfaces support Auto-Negotiation and Auto-MDI(X). The DIP switch configures the last byte of both default IP addresses and may be used for IP address assignment (DHCP, BootP).

The media redundancy controller is designed for fieldbus communication via MODBUS in ETHERNET networks. It also supports a wide variety of standard ETHERNET protocols (e.g., HTTP, BootP, DHCP, DNS, FTP). An integrated Webserver provides user configuration options, while displaying PLC status information.

The IEC 61131-3 programmable controller is multitasking-capable and features a battery-backed RTC.

Data

Technical Data

|                   |                                              |
|-------------------|----------------------------------------------|
| Communication     | EtherNet/IP<br>Modbus (TCP, UDP)<br>Ethernet |
| Ethernet protocol | HTTP<br>BootP                                |



|                                                              |                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | DHCP<br>DNS<br>SNTP<br>FTP<br>SNMP                                                                                                                                                                                                                          |
| Redundancy function                                          | via two logically separated ETHERNET interfaces                                                                                                                                                                                                             |
| Visualization                                                | Web-Visu                                                                                                                                                                                                                                                    |
| CPU                                                          | 32 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<br>Web-based management                                                                                                                                                                                                                      |
| Baud rate (communication/fieldbus 1)                         | 10/100 Mbit/s                                                                                                                                                                                                                                               |
| Baud rate                                                    | 10/100 Mbit/s                                                                                                                                                                                                                                               |
| Transmission medium (communication/fieldbus)                 | Twisted Pair S-UTP; 100 Ω; Cat. 5; Line length (max.): 100 m                                                                                                                                                                                                |
| Transmission performance                                     | Class D acc. to EN 50173                                                                                                                                                                                                                                    |
| Program memory                                               | 1024 kByte                                                                                                                                                                                                                                                  |
| Data memory                                                  | 512 kByte                                                                                                                                                                                                                                                   |
| Software non-volatile memory                                 | 32 Kbytes                                                                                                                                                                                                                                                   |
| Number of modules per node max.                              | 250                                                                                                                                                                                                                                                         |
| Number of I/O modules without bus extension max.             | 64                                                                                                                                                                                                                                                          |
| Input and output process image (Fieldbus) max.               | 1020 Worte/1020 Worte                                                                                                                                                                                                                                       |
| Indicators                                                   | LED (LINK/ACT) green: Network connection Port 1 ... 2; LED (MS, NS) red/green: Status of node, network; 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) | 90 %                                                                                                                                                                                                                                                        |
| Current consumption, system supply (5 V)                     | 450 mA                                                                                                                                                                                                                                                      |
| Total current for system supply                              | 1700 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 | EtherNet/IP: 2 x RJ-45; Modbus TCP/UDP: 2 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 mm² / 28 ... 14 AWG |
| Fine-stranded conductor                     | 0.08 ... 2.5 mm² / 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                                 | 61.5 mm / 2.421 inch |
| Height                                | 71.9 mm / 2.831 inch |
| Height from upper-edge of DIN-35 rail | 64.7 mm / 2.547 inch |
| Depth                                 | 100 mm / 3.937 inch  |

## Mechanical data

|                    |                              |
|--------------------|------------------------------|
| Weight             | 159.179 g                    |
| Color              | light gray                   |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Conformity marking | 1                            |

## Environmental Requirements

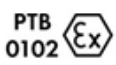
|                                                                                    |                                                                                                                    |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 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 61000-6-3, marine applications                                                                          |
| Exposure to pollutants                                                             | Per IEC 60068-2-42 and IEC 60068-2-43                                                                              |
| Fire load                                                                          | 3.181 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               | 4050821174929   |
| Customs Tariff No. | 85371091990     |

## Approvals / Certificates

### Ex-Approvals

| Logo                                                                             | Approval                         | Additional Approval Text | Certificate name                  |
|----------------------------------------------------------------------------------|----------------------------------|--------------------------|-----------------------------------|
|  | ATEX<br>TUEV Nord Cert GmbH      | EN 60079-0               | TÜV 07<br>ATEX<br>554086 X<br>en. |
|  | TUEV Nord<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            |
|------------------------------------------------------------------------------------|--------------------------------------|--------------------------|-----------------------------|
|  | KC<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   |
|------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|--------------------|
|  | ABS<br>American Bureau of Shipping               | -                        | 19-<br>HG1821926   |
|  | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194         |
|  | GL<br>Germanischer Lloyd                         | -                        | 11 631 - 10<br>HH  |
|  | KR<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           |

## Compatible products

## Marking accessories

|                                                                                    |                                                                                                                               |                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------|
|  | <b>Item no.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type         | 2009-145             |
|  | <b>Item no.: 2009-145/000-002</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-002 |
|  | <b>Item no.: 2009-145/000-005</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-005 |
|  | <b>Item no.: 2009-145/000-006</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-006 |
|  | <b>Item no.: 2009-145/000-007</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-007 |
|  | <b>Item no.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145<br>/000-012 |



|                                                                                    |                                                                                                                                     |                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|    | <b>Item no.: 2009-145/000-023</b><br>Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type        | 2009-145<br>/000-023 |
|    | <b>Item no.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type       | 2009-145<br>/000-024 |
|    | <b>Item no.: 248-501</b><br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card        | 248-501              |
|    | <b>Item no.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                            | 248-501<br>/000-002  |
|    | <b>Item no.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                            | 248-501<br>/000-005  |
|    | <b>Item no.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                            | 248-501<br>/000-006  |
|    | <b>Item no.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                            | 248-501<br>/000-007  |
|  | <b>Item no.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                            | 248-501<br>/000-012  |
|  | <b>Item no.: 248-501/000-017</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                            | 248-501<br>/000-017  |
|  | <b>Item no.: 248-501/000-023</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                            | 248-501<br>/000-023  |
|  | <b>Item no.: 248-501/000-024</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                            | 248-501<br>/000-024  |
|  | <b>Item no.: 750-100</b><br>Marker card; as a DIN A4 sheet; plain                                                                   | 750-100              |
|  | <b>Item no.: 750-103</b><br>Group marker carrier                                                                                    | 750-103              |
|  | <b>Item no.: 750-106</b><br>Group marker carrier                                                                                    | 750-106              |
| <b>system box</b>                                                                  |                                                                                                                                     |                      |
|  | <b>Item no.: 850-804</b><br>IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip         | 850-804              |
|                                                                                    | <b>Item no.: 850-804/000-001</b><br>IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip | 850-804<br>/000-001  |



|                                                                                    |                                                                                                                                          |                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    | <b>Item no.: 850-805</b><br>IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip              | 850-805             |
|    | <b>Item no.: 850-814/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate                 | 850-814<br>/002-000 |
|    | <b>Item no.: 850-815/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate                 | 850-815<br>/002-000 |
|    | <b>Item no.: 850-816/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate                 | 850-816<br>/002-000 |
|    | <b>Item no.: 850-817/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate                 | 850-817<br>/002-000 |
|    | <b>Item no.: 850-825</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20                               | 850-825             |
|    | <b>Item no.: 850-826</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          | 850-826             |
|  | <b>Item no.: 850-826/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip  | 850-826<br>/002-000 |
|  | <b>Item no.: 850-827</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          | 850-827             |
|  | <b>Item no.: 850-827/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip  | 850-827<br>/002-000 |
|  | <b>Item no.: 850-828</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip         | 850-828             |
|  | <b>Item no.: 850-828/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip | 850-828<br>/002-000 |
|  | <b>Item no.: 850-834</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20                               | 850-834             |
|  | <b>Item no.: 850-835</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          | 850-835             |
|  | <b>Item no.: 850-836</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          | 850-836             |

shield connection



|                                                                                    |                                                                                                                                      |                  |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------|
|    | <b>Item no.: 790-108</b><br>Shield clamping saddle; 11 mm wide; diameter of compatible conductor                                     | 790-108          |
|    | <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          |
| <b>General accessories</b>                                                         |                                                                                                                                      |                  |
|    | <b>Item no.: 750-921</b><br>Bluetooth® Adapter                                                                                       | 750-921          |
|   | <b>Item no.: 750-923</b><br>Configuration cable; USB connector; Length: 2.5 m                                                        | 750-923          |
|  | <b>Item no.: 750-923/000-001</b><br>Configuration cable; USB connector; Length: 5 m                                                  | 750-923 /000-001 |
| <b>software</b>                                                                    |                                                                                                                                      |                  |
|  | <b>Item no.: 759-333</b><br>WAGO-I/O-PRO                                                                                             | 759-333          |
|  | <b>Item no.: 759-333/000-923</b><br>WAGO-I/O-PRO; USB-Set                                                                            | 759-333 /000-923 |
|  | <b>Item no.: 759-911</b><br>WAGO-I/O-PRO; CD                                                                                         | 759-911          |
| <b>Carrier rail</b>                                                                |                                                                                                                                      |                  |
|  | <b>Item no.: 210-112</b><br>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          |
|  | <b>Item no.: 210-113</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715                  | 210-113          |
|  | <b>Item no.: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715                   | 210-114          |
|  | <b>Item no.: 210-115</b><br>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          |
|  | <b>Item no.: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                 | 210-118          |

|                                                                                    |                                                                                                                                 |                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    | <b>Item no.: 210-196</b><br>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715          | 210-196             |
|    | <b>Item no.: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715                | 210-197             |
|    | <b>Item no.: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715           | 210-198             |
|    | <b>Item no.: 210-504</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715   | 210-504             |
|    | <b>Item no.: 210-505</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715 | 210-505             |
|    | <b>Item no.: 210-506</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715  | 210-506             |
|    | <b>Item no.: 210-508</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715    | 210-508             |
| <b>wiring and connectors</b>                                                       |                                                                                                                                 |                     |
|    | <b>Item no.: 750-975</b><br>ETHERNET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly                          | 750-975             |
|   | <b>Item no.: 750-977/000-011</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22                            | 750-977<br>/000-011 |
|  | <b>Item no.: 750-977/000-012</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22                            | 750-977<br>/000-012 |
|  | <b>Item no.: 750-977/000-021</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24                            | 750-977<br>/000-021 |
|  | <b>Item no.: 750-977/000-022</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24                            | 750-977<br>/000-022 |
|  | <b>Item no.: 750-978/000-011</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief             | 750-978<br>/000-011 |
|  | <b>Item no.: 750-978/000-012</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief             | 750-978<br>/000-012 |
|  | <b>Item no.: 750-978/000-021</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief             | 750-978<br>/000-021 |
|  | <b>Item no.: 750-978/000-022</b><br>Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief             | 750-978<br>/000-022 |

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

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

750-979

/000-011

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

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

750-979

/000-012

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

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

750-979

/000-021

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

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

750-979

/000-022

**Downloads****Documentation****Manual**

|                                                                                             |         |        |          |
|---------------------------------------------------------------------------------------------|---------|--------|----------|
| WAGOupload                                                                                  | V 4.0.0 | pdf    | Download |
| For commissioning, management and configuration of ETHERNET 750 Series fieldbus controllers |         |        |          |
|                                                                                             |         | 6.0 MB |          |

|                                                            |         |         |          |
|------------------------------------------------------------|---------|---------|----------|
| ETHERNET media redundancy programmable fieldbus controller | V 1.5.0 | pdf     | Download |
| 10/100 Mbit/s; digital and analog signals                  |         |         |          |
|                                                            |         | 13.4 MB |          |

|                                                                |         |        |          |
|----------------------------------------------------------------|---------|--------|----------|
| WAGO MODBUS Master Configurator                                | V 1.1.0 | pdf    | Download |
| for configuration of MODBUS networks in WAGO-I/O-PRO (CODESYS) |         |        |          |
|                                                                |         | 1.3 MB |          |

**Quick-Start Guide**

|                                                   |         |        |          |
|---------------------------------------------------|---------|--------|----------|
| Programmable Fieldbus Controller ETHERNET 750-88x | V 1.0.0 | pdf    | Download |
| 10/100 Mbit/s; digital and analog signals         |         |        |          |
|                                                   |         | 4.4 MB |          |

**Bid Text**

|                |             |         |          |
|----------------|-------------|---------|----------|
| 750-882        | Apr 4, 2012 | doc     | Download |
| IO, Controller |             |         |          |
|                |             | 31.2 kB |          |

**Additional Information**

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

**System Description**

|                                           |  |          |          |
|-------------------------------------------|--|----------|----------|
| Overview on WAGO-I/O-SYSTEM 750 approvals |  | pdf      | Download |
|                                           |  | 780.2 kB |          |

|              |         |     |          |
|--------------|---------|-----|----------|
| Design Notes | V 2.0.0 | pdf | Download |
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|                                                                    |         |                 |          |
|--------------------------------------------------------------------|---------|-----------------|----------|
| Basic conditions and recommendations for higher operational safety |         | 1.5 MB          |          |
| Use in Hazardous Environments                                      | V 1.0.0 | pdf<br>1.0 MB   | Download |
| Term definition, marking and installation regulations              |         |                 |          |
| 750 Controller, General Product Information                        |         | pdf<br>621.9 kB | Download |

## Application Notes

### Application Note CoDeSys 2.3

|                                                                                                                                                                                                                                                                                                      |              |                 |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|----------|
| Application Note: MpBus_03 Library                                                                                                                                                                                                                                                                   | Apr 13, 2018 | zip<br>1.4 MB   | Download |
| This Application Note explains how a WAGO fieldbus controller sets up communication to the MP-bus actuators via the MP-bus master module (750-643).                                                                                                                                                  |              |                 |          |
| Connection of a Thermokon Thanos SR L MODBUS room control unit to the WAGO-I/O-SYSTEM                                                                                                                                                                                                                | May 13, 2013 | zip<br>313.2 kB | Download |
| The fundamental method of setting up communication between the WAGO I/O System and the Thanos SR L MODBUS room operating panel from Thermokon is described in this application note.                                                                                                                 |              |                 |          |
| Connection of Thermokon Multi-function room control units WRF 06                                                                                                                                                                                                                                     | Apr 8, 2016  | zip<br>413.6 kB | Download |
| The fundamental method of setting up communication between the WAGO I/O System and the multi-function room operating panel (WRF06 RS485 Modbus) from Thermokon is described in this application note.                                                                                                |              |                 |          |
| Application note: DALI 753-647 Configuration Interface                                                                                                                                                                                                                                               | V1.0.1       | pdf<br>3.4 MB   | Download |
| This application note describes the WAGO DALI Configurator, the integration of the DALI visualization for configuring various sensor types and the implementation in a program.                                                                                                                      | May 4, 2017  |                 |          |
| Application Note Connecting with an iPod Touch                                                                                                                                                                                                                                                       | Oct 28, 2011 | zip<br>439.1 kB | Download |
| This Application Note explains the basic procedures for access to the WAGO Ethernet Controller 750-8xx or the WAGO Ethernet Coupler 750-3xx using an iPod Touch.                                                                                                                                     |              |                 |          |
| Application Note PowerMeasurement_03 Library                                                                                                                                                                                                                                                         | Mar 19, 2012 | zip<br>954.5 kB | Download |
| This application note describes how current, voltage, effective power, power factor and energy consumption can be measured using 3-phase power measurement modules (750-493).                                                                                                                        |              |                 |          |
| HVAC System Macros for TRIC                                                                                                                                                                                                                                                                          | Jul 10, 2015 | zip<br>76.8 MB  | Download |
| In this file you will find both templates and macros for the TRIC planning software. TRIC is a tool for planners and manufacturers of HVAC systems, which complies with the VOB [Construction Tendering and Contract Regulations], VDI [Association of German Engineers], and DIN EN ISO guidelines. |              |                 |          |
| Application Note: EnOcean_06 Library                                                                                                                                                                                                                                                                 | Nov 30, 2016 | zip<br>842.0 kB | Download |



This application note describes how communication between the WAGO-I/O-SYSTEM and different EnOcean wireless sensors can be implemented using the EnOcean\_06.lib library.

|                                                                                         |              |        |          |
|-----------------------------------------------------------------------------------------|--------------|--------|----------|
| Application Note Scheduler_03.lib                                                       | May 20, 2011 | zip    | Download |
| This application note describes different applications of the Scheduler_03.lib library. |              | 1.8 MB |          |

|                                                                                          |              |        |          |
|------------------------------------------------------------------------------------------|--------------|--------|----------|
| Application Note Library ModuleAccess_01                                                 | Jan 29, 2016 | zip    | Download |
| These instructions describe the use of the ModuleAccess_01.lib library using 4 examples. |              | 1.0 MB |          |

|                                                                                                                                                                                                          |              |          |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|----------|
| Connection of Thermokon Multi-function room control units WRF 08                                                                                                                                         | Apr 10, 2019 | zip      | Download |
| The fundamental way of carrying out the communication between the WAGO I/O System and the multi-function room operating panel (WRF08 RS485 Modbus) from Thermokon is described in this application note. |              | 931.8 kB |          |

|                                                                                           |              |         |          |
|-------------------------------------------------------------------------------------------|--------------|---------|----------|
| HVAC System Macros                                                                        | Mar 15, 2019 | zip     | Download |
| WAGO provides system macros for HVAC applications that are based on Building_HVAC_03.lib. |              | 13.6 MB |          |

|                                                                                                                                                                                   |             |        |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|----------|
| Connection of DMX devices to the WAGO-I/O-SYSTEM via the ArtNet-DMX STAGE-PROFI 1.1                                                                                               | Oct 9, 2012 | zip    | Download |
| This application note describes connecting the ArtNet-DMX STAGE-PROFI 1.1 to the WAGO-I/O-SYSTEM. The ArtNet-DMX STAGE-PROFI 1.1 can be operated as a DMX master and a DMX slave. |             | 1.5 MB |          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |              |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|----------|
| HART-Tool-Routing über ETHERNET mit 750-820x/750-88x und CoDeSys 2.3 (a116120)                                                                                                                                                                                                                                                                                                                                                                                                            | 1.0.0 | pdf          | Download |
| Der Anwendungshinweis beschreibt die Einrichtung von Asset-Management-Systemen, welche das einfache, effiziente und schnelle Konfigurieren von HART-Feldgeräten ermöglichen. Am Beispiel des Cerabar PMC51 (Endress+Hauser) erfolgt die Anbindung an die WAGO-ETHERNET-Controller 750-820x/750-88x (CoDeSys 2.3). Hierbei wird das HART-Modul 750-482 und 750-484 genutzt. Zusätzlich wird die Konfiguration der Asset-Management-Software WAGOframe, PACTware und FieldCare beschrieben. |       | Mar 22, 2019 | 3.9 MB   |

|                                                                                                                                                           |            |              |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------|
| Application Note Weather Station Elsner P03 Modbus                                                                                                        | 01.12.2011 | zip          | Download |
| This application note describes how communication can be set up between the WAGO I/O System and the ELSNER P03/3 weather station with a Modbus interface. |            | Oct 28, 2011 | 275.6 kB |

|                                                                                                                                                                                                  |             |          |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------|
| Application Note DaylightSaving                                                                                                                                                                  | Nov 8, 2011 | zip      | Download |
| This Application Note explains how automatic switching between standard/daylight savings time can be implemented on the Ethernet fieldbus controller 750-841, starting from Firmware version 11. |             | 682.4 kB |          |

|                                                                                                                                                                                                                                                           |              |        |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|----------|
| Application Note for the 750-494 3-Phase Power Measurement Module                                                                                                                                                                                         | Nov 11, 2014 | zip    | Download |
| The application note for the 3-Phase Power Measurement Module 750-494 shows how the measured values of the power measurement module can be read. It is also shown how the power module can be configured using the WAGO-I/O-PRO- V2.3 visualization tool. |              | 1.7 MB |          |

Application Note: DMX 02



|                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |                 |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|----------|
| <p>This application note describes how a DMX master for DMX device control can be performed via 750-652 serial interface.</p>                                                                                                                                                                                                                                                                                                                | Apr 26, 2017         | zip<br>751.0 kB | Download |
| <p>Connection of the WS-K xx T ModBus HVAC Electronic Weather Forecast Station</p> <p>The Application Note explains how communication between the WAGO-I/O-SYSTEM and an HKW electronic weather forecast station (compact) can be established.</p>                                                                                                                                                                                           | V 1.1<br>Jul 7, 2017 | zip<br>781.1 kB | Download |
| <p>Application Note for the 750-495 3-Phase Power Measurement Module</p> <p>The application note for the 3-Phase Power Measurement Module 750-495 shows how the measured values of the power measurement module can be read. It is also shown how the power module can be configured using the WAGO-I/O-PRO- V2.3 visualization tool.</p>                                                                                                    | Jan 24, 2014         | zip<br>1.8 MB   | Download |
| <p>GRUNDFOS GENIbus interface, application note</p> <p>This application note describes how communication between the WAGO-I/O-SYSTEM and the Grundfos MAGNA series circulation pumps can be performed via GENIbus interface.</p>                                                                                                                                                                                                             | Dec 18, 2015         | zip<br>286.6 kB | Download |
| <p>Redundant Modbus communication with 750-882 (a300004)</p> <p>The WAGO Ethernet-Controller 750-882 provide two individual network interfaces, who can be used for any kind of ethernet communication. This application note shows how to setup a redundant Modbus_UDP connection between two 750-882, where one Controller act as a Modbus-Master who calculate and send process data to another 750-882 whos operate as Modbus-Slave.</p> | V1.0.0               | zip<br>760.8 kB | Download |
| <p>Using the web visualization with Java™ runtime environment (JRE, JVM) 7 update 51 (7u51) (a500690)</p> <p>Oracle announced an update (7u51) for their Java™ runtime environment for the 14th of January 2014 which might have an impact on the use of the WAGO web visualization with Controller, PERSPECTO CP devices and WAGO-IO-IPCs. For more details please have a look into our application note.</p>                               | V1.2.3               | zip<br>5.0 MB   | Download |

## Libraries

### Library

|                                                                                                                                                                                                                                               |                     |                 |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|----------|
| <p>ModuleAccess_01.lib</p> <p>The ModuleAccess_01 library provides both module configuration and access to its process data within a CoDeSys project without the use of WAGO I/O Check.</p>                                                   | 1.7<br>Jan 18, 2018 | zip<br>1.5 MB   | Download |
| <p>WagoLibConfigETH_01</p> <p>The library WagoLibConfigETH_01.lib library provides function blocks for accessing the device configuration (e.g., network settings, data and time, ongoing services) of the fieldbus controllers ETHERNET.</p> | 1.0.0               | pdf<br>390.6 kB | Download |

## Engineering-Software

### Configuration and Commissioning Software





|                                                                                                                                                                     |                          |                 |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|----------|
| WAGO BootP Server / 750 and 767 Series                                                                                                                              | 1.0<br>Mar 7, 2000       | zip<br>1.1 MB   | Download |
| WAGO Extension Setting / 750 Series                                                                                                                                 | 2.0.2<br>Mar 9, 2011     | zip<br>5.4 MB   | Download |
| WAGOupload Full Version<br>WAGOupload is an independent PC software for transmission, backing up and restoring of PLC applications on WAGO 750 Series controllers.  | 1.10.0.0<br>Feb 18, 2019 | zip<br>60.5 MB  | Download |
| WAGOupload Small Version<br>WAGOupload is an independent PC software for transmission, backing up and restoring of PLC applications on WAGO 750 Series controllers. | 1.10.0.0<br>Feb 18, 2019 | exe<br>4.1 MB   | Download |
| WAGO Ethernet Settings / 750 Series<br>759-316                                                                                                                      | 6.8.2.2<br>Aug 5, 2015   | exe<br>16.0 MB  | Download |
| 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 | Download |

## Runtime Software

### Firmware

|                                                                         |                    |               |          |
|-------------------------------------------------------------------------|--------------------|---------------|----------|
| Firmware: 750-882 Controller ETHERNET; 3rd Generation; Media Redundancy | 14<br>Apr 11, 2019 | zip<br>2.3 MB | Download |
|-------------------------------------------------------------------------|--------------------|---------------|----------|

## CAD/CAE - Smart Data

### CAD data

|                     |  |     |          |
|---------------------|--|-----|----------|
| 3D Download 750-882 |  | URL | Download |
|---------------------|--|-----|----------|

## Device Files

### 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 | Download |
|---------------------------------------------------------------|-------------------------|---------------|----------|

### Device Description File

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

## Product family

### Controller 750

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Subject to changes.

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