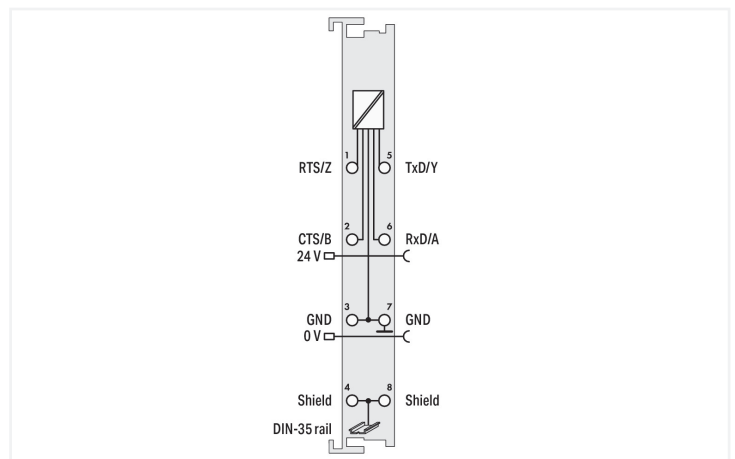
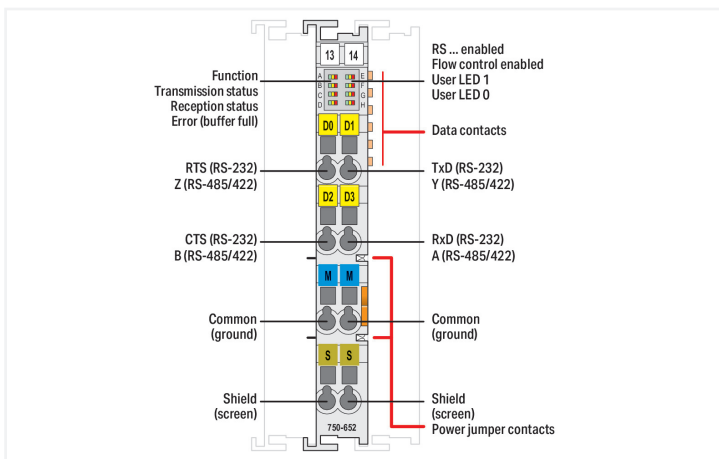


Color: ■ light gray



This serial interface module connects RS-485/-422 or RS-232 C interface devices to the WAGO I/O System 750. It also provides gateways between the serial interface and the fieldbus systems supported by the WAGO I/O System 750. No higher protocol level is required by the module. Communication to the associated fieldbus master is completely transparent, which provides a wide range of applications for the serial interface module. If required, communication protocols can be configured via fieldbus master.

The 2560-byte input buffer provides high data baud rates. At lower baud rates, the data received in lower priority tasks is evaluated without data loss. The 512-byte output buffer provides fast transmission of larger data strings.

The module can be configured via WAGO-I/O-CHECK or GSD files. Both flexible baud rate and data width selection perfectly adapt to the application.

Technical data

| | |
|-------------------------|--|
| Signal type | RS-232 RS-422 / RS-485 |
| Transmission rate | 300 Bd ... 115.2 kBd |
| Bit transfer | RS-485/-422: ISO 8482 / DIN 66259 - 4; RS-232: EIA/TIA-232-F |
| Transmission channels | 1 TxD / 1 RxD, full-duplex, half-duplex |
| Line length | RS-485/-422: approx. 1000 m (max.) twisted pair, RS-232: 40 m (max.) |
| Data width | 1 x 46/1 x 22/1 x 6-byte input/output (parameterizable), 2-byte control/status |
| Parity | None/Odd/Even |
| Number of data bits | 7/8, adjustable |
| Number of stop bits | 1/2, adjustable |
| Buffer | 2560-byte input / 512-byte output |
| Supply voltage (system) | 5 VDC; via data contacts |

Technical data

| | |
|---|--|
| Current consumption (5 V system supply) | 85 mA |
| Supply voltage (field) | 24 VDC; via power jumper contacts (power supply via blade contact; transmission (field side supply voltage only) via spring contact) |
| Isolation | 500 V system/field |
| Indicators | LED (A-H) green/yellow/red: function, transmission status, reception status, error (buffer full), RS ... active, flow control active, user LED 1, user LED 0 |
| Number of incoming power jumper contacts | 2 |
| Number of outgoing power jumper contacts | 2 |
| Current carrying capacity (power jumper contacts) | 10 A |

Connection Data

| | |
|---------------------------------|--|
| Connection technology: I/O | 8 x CAGE CLAMP® |
| Connectable conductor materials | Copper |
| Connection type | Inputs/outputs |
| Solid conductor | 0.08 ... 2.5 mm ² / 28 ... 14 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm ² / 28 ... 14 AWG |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inches |

Physical data

| | |
|-----------------------------------|------------------------|
| Width | 12 mm / 0.472 inches |
| Height | 100 mm / 3.937 inches |
| Depth | 67.8 mm / 2.669 inches |
| Depth from upper-edge of DIN-rail | 60.6 mm / 2.386 inches |

Mechanical data

| | |
|---------------------|-------------|
| Mounting type | DIN-35 rail |
| Pluggable connector | fixed |

Material data

| | |
|--------------------|------------------------------|
| Color | light gray |
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 0.669 MJ |
| Weight | 50.5 g |
| Conformity marking | CE |

Environmental requirements

| | |
|--|---|
| Ambient temperature (operation) | -20 ... +60 °C |
| Ambient temperature (storage) | -40 ... +85 °C |
| Protection type | IP20 |
| Pollution degree | 2 per IEC 61131-2 |
| Operating altitude | 0 ... 2000 m / 0 ... 6562 ft |
| Mounting position | Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom |
| Relative humidity (without condensation) | 95 % |
| Relative humidity (with condensation) | Short-term condensation per Class 3K6/IEC EN 60721-3-3 and E-DIN 40046-721-3, accounting for a temperature range of -20 to +60 °C (except for wind-driven precipitation, water and ice formation) |
| Vibration resistance | 4g per IEC 60068-2-6 |
| Shock resistance | 15g per IEC 60068-2-27 |
| EMC immunity to interference | per EN 61131-2, marine applications |
| EMC emission of interference | per EN 61131-2, marine applications |
| Exposure to pollutants | per IEC 60068-2-42 and IEC 60068-2-43 |
| Permissible H ₂ S contaminant concentration at a relative humidity 75 % | 10 ppm |

Environmental requirements

| | |
|---|--------|
| Permissible SO ₂ contaminant concentration at a relative humidity 75 % | 25 ppm |
|---|--------|

Commercial data

| | |
|-----------------------|-----------------|
| Product Group | 15 (I/O System) |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4050821129110 |
| Customs tariff number | 85389099990 |

Product Classification

| | |
|-------------|----------------------|
| UNSPSC | 32151705 |
| eCl@ss 10.0 | 27-24-26-08 |
| eCl@ss 9.0 | 27-24-26-08 |
| ETIM 9.0 | EC001604 |
| ETIM 10.0 | EC001604 |
| ECCN | NO US CLASSIFICATION |

Environmental Product Compliance

| | |
|---|---|
| CAS-No. | 1303-86-2 1317-36-8 7439-92-1 |
| REACH Candidate List Substance | Diboron trioxide Lead Lead monoxide |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 7(c)-I |
| SCIP notification number (Austria) | 27032d0a-883d-468f-9cb6-088aed8ef215 |
| SCIP notification number (Belgium) | 065a1859-4dfa-4afa-93ea-596bb13ab6a1 |
| SCIP notification number (Bulgaria) | bc6d1a6b-6f1a-4bd0-aa78-fae884cac4c2 |
| SCIP notification number (Czech Republic) | c52bcfbd-3c89-44b0-99f5-79335a9b9081 |
| SCIP notification number (Denmark) | 9fa9f45b-63fd-4d35-94f4-77cf78b4bc9e |
| SCIP notification number (Finland) | d2ecd908-0222-4148-9094-474952bfb124 |
| SCIP notification number (France) | 735a8f7a-a40a-40c8-8156-1c1b84a256be |
| SCIP notification number (Germany) | 4848744b-bedb-47ea-8a40-c29e8eb81f1c |
| SCIP notification number (Hungary) | 212333fc-06fd-4fc9-8837-cf964aa99fac |
| SCIP notification number (Italy) | 895f8dbb-56a3-45b1-9efb-2f5ec6f859e4 |
| SCIP notification number (Netherlands) | 24e2dd56-f34e-4faa-95c1-148f86c586bb |
| SCIP notification number (Poland) | 61305c86-7651-4591-b007-860a9db7ce8a |
| SCIP notification number (Romania) | 8cc341f1-4585-4430-98ea-9f5f63872f71 |
| SCIP notification number (Sweden) | 19b7563f-d21d-4e0a-ae1-e064b492ab81 |

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|---|----------------|---------------------|
| EAC GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03083 |
| KC National Radio Research Agency | - | MSIP-REM-W43-SIM750 |
| UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508 | E175199 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications



| Approval | Standard | Certificate Name |
|---|------------------------|-------------------|
| ABS American Bureau of Shipping | - | 22-2227356-PDA |
| BSH Bundesamt fuer Seeschifffahrt und Hydrographie | - | 1104 |
| DNV DNV Germany GmbH | DNV-CG-0339, Aug. 2021 | TAA00001J4 |
| LR Lloyds Register | - | LR2475997TA |
| PRS Polski Rejestr Statków | - | TE/1102/880590/23 |

Approvals for hazardous areas



| Approval | Standard | Certificate Name |
|--|-------------|--|
| ATEX TUEV Nord Cert GmbH | EN 60079-0 | TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc) |
| CCCEX CQST/CNEX | CNCA-C23-01 | 2020312310000213 (Ex ec IIC T4 Gc) |
| IECEX TUEV Nord Cert GmbH | IEC 60079-0 | IECEX TUN 14.0035 X (Ex ec IIC T4 Gc) |
| INMETRO TUV Rheinland do Brasil Ltda. | IEC 60079-0 | TUV 12.1297 X |
| UKEX WAGO GmbH & Co. KG | EN 60079-0 | UKCA_WA GO22UKEX003X_ec |
| UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201 | E198726 |

Downloads

Environmental Product Compliance

Compliance Search

| | |
|---|-------------------|
| Environmental Product Compliance 750-652/025-000 | ↓ |
|---|-------------------|

Documentation

| Manual | | | |
|---|---------|-------------------|-------------------|
| Product Manual Serial Interface RS-232 / RS-485 | V 2.0.0 | pdf 3716.42 KB | ↓ |
| System Manual Series 750/753 | | | ↓ |

| System Description | | | |
|---|--|------------------|-------------------|
| 750/753 Series I/O-System – General Product Information | | pdf 953.35 KB | ↓ |
| Overview on WAGO-I/O-SYSTEM 750 approvals | | pdf 770.48 KB | ↓ |

| Bid Text | | | |
|-----------------|------------|-----------------|-------------------|
| 750-652/025-000 | 19.02.2019 | xml 5.64 KB | ↓ |
| 750-652/025-000 | 16.10.2017 | doc 28.00 KB | ↓ |

| Instruction Leaflet | | | |
|---------------------------------|------------|------------------|-------------------|
| CCC Ex (Additional information) | 26.04.2023 | pdf 159.76 KB | ↓ |

Application Notes

| Application Note CoDeSys 2.3 | | | |
|---|--------------------------|-------------------|-------------------|
| Beispiel zur Verwendung der Bibliothek Modb_I05.lib (a102607) | 1.0.0 21.06.2011 | zip 707.22 KB | ↓ |
| Application note Wago OBIS Protocol 01 (2019014) | 2019-09-24 24.09.2019 | zip 1110.17 KB | ↓ |

| Application Note e!COCKPIT | | | |
|---|--------------------------|------------------|-------------------|
| e!COCKPIT application note WagoSolElsner | 1.0.2 06.12.2021 | pdf 512.20 KB | ↓ |
| e!COCKPIT application note WagoSolHKW | 1.0.2 06.12.2021 | pdf 611.79 KB | ↓ |
| e!COCKPIT Application Note WagoSolEAP (a2019006) | 2021-11-08 06.12.2021 | pdf 659.32 KB | ↓ |
| e!COCKPIT Application Note WagoAppPower-Supply (a2019012) | 1.1.1 06.12.2021 | pdf 707.04 KB | ↓ |
| e!COCKPIT AppNote GENbus (a2021003) | 1.0.1 06.12.2021 | pdf 755.13 KB | ↓ |
| CODESYS 3 Anwendungshinweis Thies Wettersensoren (a2021014) | 2021-12-06 06.12.2021 | zip 924.51 KB | ↓ |

CAD/CAE-Data

| CAD data | |
|---------------------------------|-------------------|
| 2D/3D Models 750-652/025-000 | ↓ |

| CAE data | |
|--------------------------------------|-------------------|
| EPLAN Data Portal 750-652/025-000 | ↓ |
| WSCAD Universe 750-652/025-000 | ↓ |
| ZUKEN Portal 750-652/025-000 | ↓ |

Device Files

| Device Driver | | | |
|--|-----------------------|-------------------|-------------------|
| WAGO USB Service Kabel Treiber / Serie 750 und 857 | 6.5.3.0 10.09.2014 | zip 4721.96 KB | ↓ |

1 Compatible Products

1.1 Optional Accessories

1.1.1 DIN-rail

1.1.1.1 Mounting accessories



Item No.: 210-196

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



Item No.: 210-198

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



Item No.: 210-197

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



Item No.: 210-114

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



Item No.: 210-118

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



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; silver-colored



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; silver-colored



Item No.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

1.1.2 Marking

1.1.2.1 Group marker carrier



Item No.: 750-107

Group marker carrier

1.1.2.2 Marker



Item No.: 2009-145/000-006

Mini-WSB In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 2009-145/000-007

Mini-WSB In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 2009-145/000-023

Mini-WSB In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 2009-145/000-012

Mini-WSB In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-145/000-005

Mini-WSB In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



Item No.: 2009-145/000-024

Mini-WSB In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



Item No.: 2009-145

Mini-WSB In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 2009-145/000-002

Mini-WSB In-line; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 248-501/000-006

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



Item No.: 248-501/000-007

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



Item No.: 248-501/000-023

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



Item No.: 248-501/000-017

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



Item No.: 248-501/000-012

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



Item No.: 248-501/000-005

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



Item No.: 248-501/000-024

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



Item No.: 248-501

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



Item No.: 248-501/000-002

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

1.1.2.3 Marker carrier



Item No.: 750-103
Group marker carrier

1.1.3 Shield termination

1.1.3.1 Shield clamping saddles



Item No.: 790-108
Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm



Item No.: 790-208
Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm



Item No.: 790-116
Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm



Item No.: 790-216
Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm



Item No.: 790-124
Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm



Item No.: 790-220
Shield clamping saddle; 30 mm wide; 6 ... 20 mm



Item No.: 790-140
Shield clamping saddle; diameter of compatible conductor

1.1.4 System enclosure

1.1.4.1 System enclosure



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



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



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



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



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



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



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



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



Item No.: 850-835
IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip



Item No.: 850-836
IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip



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



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



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



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