

This serial interface module connects RS-485, RS-422 or RS-232 interface devices (optional) to the WAGO I/O System 750/753. It also allows gateways to be implemented between the fieldbuses supported by the WAGO I/O System 750/753 and a serial interface. 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 8192-byte input buffer provides high data rates. At lower baud rates, the data received in lower priority tasks is evaluated without data loss.

The 2048-byte output buffer provides fast transmission of larger data strings.

The module can be freely configured via WAGO-I/O-CHECK, e!COCKPIT or GSD files. Both flexible baud rate and data width selection perfectly adapt to the application. It is not suitable for applications under CODESYS 2.3.

The module has a switchable terminating resistor for impedance matching.

In addition, the module provides a two-stage switchable bias network for level adjustment of the receiver inputs. This eliminates the need for an external terminating resistor and, in many cases, for an external bias network.

Technical data

Signal type	RS-232 RS-422 / RS-485
Transmission rate	150 Bd ... 250 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.)
Level adjustment	Bias network 1 approx. 620 Ω (switchable); bias network 2 approx. 1210 Ω (switchable)
Data width	Serial operating modes: 1 x 46/1 x 22/1 x 6-byte input/output (parameterizable), 2-byte control/status
Terminating resistor	Approx. 120 Ohm (switchable)
Parity	None/Odd/Even/Mark/Space
Number of data bits	7 ... 8, adjustable
Number of stop bits	1/2, adjustable
Buffer	8192-byte input / 2048-byte output
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	120 mA
Current consumption (note)	120 mA at RS-232, Xon/Xoff 115.2 kBaud; 90 mA at RS-485 full-duplex 115.2 kBaud
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, TxD (send), RxD (receive), buffer status, 3 x operating mode, data flow control
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

Housing material	Polycarbonate; polyamide 6.6
Fire load	0.671 MJ
Weight	53.3 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °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 %
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-3, 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
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966371253
Customs tariff number	85389099990

Product Classification

UNSPSC	32101517
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)	a78b29be-4883-45a2-a1de-fa0d374dfa62
SCIP notification number (Belgium)	ac2eb67e-85bb-41e4-ae51-164544d79105
SCIP notification number (Bulgaria)	0d81b52f-b65b-4b44-9db5-def700c1ca8
SCIP notification number (Czech Republic)	4cc20f41-5e3a-4596-9503-896739d0e2b0
SCIP notification number (Denmark)	bc98fe69-7024-4844-abf5-b282da07430a
SCIP notification number (Finland)	1832355f-9395-4004-b51b-90bb37a942ef
SCIP notification number (France)	eb9b2269-a5c0-4a6c-a33b-947a60a22d7d
SCIP notification number (Germany)	dfd08081-39ba-4304-9102-8f82a16471e8
SCIP notification number (Hungary)	6efba538-bfa4-4df8-beca-09400b6a846c
SCIP notification number (Italy)	80140f7a-00bb-4b7a-a0a9-20ee8acb6788

Environmental Product Compliance

SCIP notification number (Netherlands)	7706470d-a5d8-4842-af0c-a37372428f85
SCIP notification number (Poland)	7f9b5780-290e-4213-8579-df22283270a7
SCIP notification number (Romania)	8a7d8abc-7b7b-4c10-b7fc-aeafb81c26af
SCIP notification number (Sweden)	4027092b-72dd-44a2-a6d3-bbc7d21ddaee

Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



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)	-	E175199


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
DNV DNV GL SE	DNV-CG-0339, Aug. 2021	TAA0000194
NK Nippon Kaiji Kyokai	Guidel. Perform. Type Approvals	TA25276M
PRS Polski Rejestr Statków	-	TE/1101/880590/23

Approvals for hazardous areas




Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	-	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
CCCEX CQST/CNEEx	-	2020312310000213 (Ex ec IIC T4 Gc)
IECEX TUEV Nord Cert GmbH	-	IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Downloads


Environmental Product Compliance

Compliance Search

Environmental Product Compliance 750-1652 

Documentation

Manual

Product manual Serial Interface RS-232/485	1386559883 6 en-US 2025-08-01 13:48 19.11.2025	pdf 4033.17 KB	
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CAD/CAE-Data

CAD data

2D/3D Models 750-1652	
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