

Data sheet | Item number: 750-563

2-channel analog output; 0/4 ... 20 mA; 16 bits; 6 ... 18 VDC

www.wago.com/750-563



Color:



Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
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Phone: +49571 887-0 | Fax: +49571 887-169
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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Item description

This analog output module generates output currents ranging from 0/4 to 20mA or output voltages in the range from 6 to 18V for the field.

Output ranges can be configured via WAGO-I/O-CHECK or GSD files.

The module has two short circuit-proof output channels and enables direct connection of two 2-wire actuators to AO 1 and ground or AO2 and ground. Signals are output via AO 1 or AO 2. In addition, the sense lines from 4-wire actuators can be connected to -Sense AO1 and +Sense AO1 or -Sense AO2 and +Sense AO2.

Both output channels have a common ground potential.

The output signal is electrically isolated and transmitted with a resolution of 16 bits.

Both internal system and field side supply power the module.

Subject to changes. Please also observe the further product documentation!

Data

Technical data

| | |
|--|---|
| Number of analog outputs | 2 |
| Total number of channels (module) | 2 |
| Signal type | Voltage Current |
| Signal type (current) | 0 ... 20 mADC; 4 ... 20 mADC |
| Signal type (voltage) | 6 ... 18 VDC |
| Signal type (configurable) | yes |
| Actuator connection | 2 x (2-wire, 4-wire) |
| Resolution [bit] | 16 bits |
| Data width | 2 x 16-bit data; 2 x 8-bit control/status (optional) |
| Load impedance (voltage output) | $\geq 1.8 \text{ k}\Omega$ |
| Load impedance (current output) | $\leq 500 \Omega$ |
| Conversion time (typ.) | 5 ms |
| Measurement error (reference temperature) | 25 °C |
| Measurement error, deviation (max.) from the upper-range value | 0.05 % |
| Output error, reference temperature | |
| Output error, deviation (max.) of the upper-range value | 0.05 % |
| Temperature coefficient | $< \pm 100 \text{ ppm}$ |
| Recovery time (typ.) | 0.3 ms |
| Configuration options | WAGO-I/O-CHECK CODESYS Library e!COCKPIT |
| Supply voltage (system) | 5 VDC; via data contacts |
| Current consumption (5 V system supply) | 95 mA |
| Supply voltage (field) | 24 VDC (-15 ... +20 %); via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Isolation | 500 V system/field |
| Indicators | LED (A, C) green: Function AO 1, AO 2; LED (B, D) red: Error AO 1, AO 2 |
| 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: inputs/outputs | 8 x CAGE CLAMP® |
| Connection type 1 | Inputs/Outputs |

Subject to changes. Please also observe the further product documentation!



| | |
|-------------------------|--|
| 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 | 69.8 mm / 2.748 inches |
| Depth from upper-edge of DIN-rail | 62.6 mm / 2.465 inches |

Mechanical Data

| | |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

Material Data

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|--------------------|------------------------------|
| Color | light gray |
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 0.967 MJ |
| Weight | 51.2 g |
| Conformity marking | CE |

Environmental requirements

| | |
|--|---------------------------------------|
| Ambient temperature (operation) | 0 ... +55 °C |
| Ambient temperature (storage) | -25 ... +85 °C |
| Protection type | IP20 |
| Pollution degree | 2 per IEC 61131-2 |
| Operating altitude | 0 ... 2000 m / 0 ... 6562 ft |
| Mounting position | horizontal (standing/lying); vertical |
| 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 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 |
| Permissible SO ₂ contaminant concentration at a relative humidity 75 % | 25 ppm |

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%

Commercial data

| | |
|-----------------------|-----------------|
| Product Group | 15 (I/O System) |
| eCl@ss 10.0 | 27-24-26-01 |
| eCl@ss 9.0 | 27-24-26-01 |
| ETIM 8.0 | EC001596 |
| ETIM 7.0 | EC001596 |
| Recupel Type | |
| PU (SPU) | 1 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4045454710323 |
| Customs tariff number | 85389099990 |

Environmental Product Compliance

| | |
|---|---|
| CAS-No. | 1317-36-8 25550-51-0 7439-92-1 |
| REACH Candidate List Substance | 4-Methyl-1,2-cyclohexanedicarboxylic anhydride Lead Lead monoxide |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) 7(a) 7(c)-I 7(c)-II |
| SCIP notification number (Bulgaria) | b3378984-fd1c-45f0-9280-f7822e75afa8 |
| SCIP notification number (Czech Republic) | a2234997-4d71-4b49-b919-68ae5a7c86d2 |

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|-----------------------------|
| | KC National Radio Research Agency | Article 58-2, Clause 3 | MSIP- REM-W43- AOM750 |
| | UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508 | E175199 Sec.1 |

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Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
| | EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| | UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|------|--|--------------------------|-----------------------|
| | ABS American Bureau of Shipping | - | 22-2219060 |
| | BSH Bundesamt fuer Seeschifffahrt und Hydrographie | - | 1104 |
| | DNV DNV GL SE | DNV-CG-0339,Aug.2021 | TAA0000194 |
| | LR Lloyds Register EMEA | - | LR22180952TA |
| | PRS Polski Rejestr Statków | - | TE/2236/880590 /19 |
| | RINA RINA Germany GmbH | - | ELE343521XG001 |

Approvals for hazardous areas

| Logo | Approval | Additional Approval Text | 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) |
| | EAC Brjansker Zertifizierungsstelle | TP TC 012/2011 | EAC RU C-DE.AM02.B.00163 /19 (2Ex nA IIC T4 Gc X) |
| | IECEX TUEV Nord Cert GmbH | IEC 60079-0 | IECEX TUN 14.0035 X (Ex ec IIC T4 Gc) |
| | INMETRO TÜV Rheinland do Brasil Ltda. | IEC 60079-0 | BR-Ex_TÜV 12.1297 X |
| | UKEx WAGO GmbH & Co. KG | EN 60079-0 | UKCA_WAGO22UKEX003X_ec |
| | UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201 | E198726 Sec.1 |

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Optional accessories

Marking accessories

| | | |
|--|--|--|
| Marker carrier | | |
| Item no.: 750-103 | | www.wago.com/750-103 |
| Group marker carrier | | |
| Marker | | |
| Item no.: 2009-145/000-006 | | www.wago.com/2009-145/000-006 |
| Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue | | |
| Item no.: 2009-145 | | www.wago.com/2009-145 |
| Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white | | |
| Item no.: 2009-145/000-002 | | www.wago.com/2009-145/000-002 |
| Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | | |
| Item no.: 2009-145/000-007 | | www.wago.com/2009-145/000-007 |
| Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray | | |
| Item no.: 2009-145/000-005 | | www.wago.com/2009-145/000-005 |
| Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red | | |
| Item no.: 2009-145/000-012 | | www.wago.com/2009-145/000-012 |
| Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange | | |
| Item no.: 2009-145/000-023 | | www.wago.com/2009-145/000-023 |
| Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green | | |
| Item no.: 2009-145/000-024 | | www.wago.com/2009-145/000-024 |
| Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | | |
| Item no.: 248-501/000-006 | | www.wago.com/248-501/000-006 |
| Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue | | |
| Item no.: 248-501/000-007 | | www.wago.com/248-501/000-007 |
| Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray | | |
| Item no.: 248-501/000-002 | | www.wago.com/248-501/000-002 |
| Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow | | |

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| | |
|---|--|
| Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange | www.wago.com/248-501/000-012 |
| Item no.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white | www.wago.com/248-501 |
| Item no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green | www.wago.com/248-501/000-017 |
| Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red | www.wago.com/248-501/000-005 |
| Item no.: 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet | www.wago.com/248-501/000-024 |
| Item no.: 248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green | www.wago.com/248-501/000-023 |
| Item no.: 750-100 Marker card; as a DIN A4 sheet; plain | www.wago.com/750-100 |
| Group marker carrier | |
| Item no.: 750-106 Group marker carrier | www.wago.com/750-106 |
| Shield termination | |
| Shield clamping saddles | |
| Item no.: 790-116 Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm | www.wago.com/790-116 |
| Item no.: 790-124 Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm | www.wago.com/790-124 |
| Item no.: 790-108 Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm | www.wago.com/790-108 |
| Item no.: 790-140 Shield clamping saddle; diameter of compatible conductor | www.wago.com/790-140 |
| Item no.: 790-216 Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm | www.wago.com/790-216 |
| Item no.: 790-220 Shield clamping saddle; 30 mm wide; 6 ... 20 mm | www.wago.com/790-220 |
| Item no.: 790-208 Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm | www.wago.com/790-208 |

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Carrier rail

| Mounting accessories | | |
|--------------------------|--|--|
| 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 | www.wago.com/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; copper-colored | www.wago.com/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; silver-colored | www.wago.com/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; silver-colored | www.wago.com/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; silver-colored | www.wago.com/210-506 |
| Item no.: 210-508 | Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored | www.wago.com/210-508 |
| 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 | www.wago.com/210-113 |
| 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 | www.wago.com/210-118 |
| 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 | www.wago.com/210-112 |
| 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 | www.wago.com/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; silver-colored | www.wago.com/210-115 |
| 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 | www.wago.com/210-196 |

System housing

| System enclosure | | |
|----------------------------------|--|--|
| Item no.: 850-814/002-000 | IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate | www.wago.com/850-814/002-000 |
| Item no.: 850-815/002-000 | IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate | www.wago.com/850-815/002-000 |

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**Item no.: 850-816/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate

www.wago.com/850-816/002-000**Item no.: 850-817/002-000**

IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate

www.wago.com/850-817/002-000**Item no.: 850-825**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20

www.wago.com/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

www.wago.com/850-826**Item no.: 850-827**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip

www.wago.com/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

www.wago.com/850-827/002-000**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

www.wago.com/850-826/002-000**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

www.wago.com/850-828/002-000**Item no.: 850-828**

IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip

www.wago.com/850-828**Item no.: 850-834**

IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20

www.wago.com/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

www.wago.com/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

www.wago.com/850-836**Downloads****Documentation****Manual**System Manual WAGO I/O System 750/753
Decentralized Automation TechnologyV 3.3.3
2023 年8月29 日pdf
8.7 MB

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| | | | |
|--|---------------------------|-----------------|----------|
| Product Manual 2-channel, 0 / 4-20mA | V 1.1.0 | pdf 2.9 MB | Download |
| System Manual Series 750/753 Online HTML | | URL | Download |
| Bid Text | | | |
| 750-563 docx - Datei | 2019 年3月5日 | docx 18.0 kB | Download |
| 750-563 X81 - Datei | 2019 年2月19日 | xml 5.3 kB | Download |
| Instruction Leaflet | | | |
| CCC Ex (Additional information) WAGO-I/O-SYSTEM *750-****/* | 2023 年4月26日 | pdf 163.6 kB | Download |
| System Description | | | |
| 750/753 Series I/O-System – General Product Information | | pdf 976.2 kB | Download |
| Overview on WAGO-I/O-SYSTEM 750 approvals | | pdf 223.5 kB | Download |
| Additional Information | | | |
| Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging | V 1.1.0 2022 年8月18日 | pdf 2.2 MB | Download |
| Application Notes | | | |
| Application Note CoDeSys 2.3 | | | |
| Application Note Library ModuleAccess_01 These instructions describe the use of the ModuleAccess_01.lib library using 4 examples. | 05.01.2016 2016 年1月29日 | zip 1.0 MB | Download |
| Libraries | | | |
| Library | | | |
| ModuleAccess_01.lib | 1.8.7 | zip | Download |

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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. 2020 年1月27 日

2.2 MB

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 750-563 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 750-563 | URL | Download |
|---------------------------|-----|----------|

| | | |
|------------------------|-----|----------|
| WSCAD Universe 750-563 | URL | Download |
|------------------------|-----|----------|

| | | |
|----------------------|-----|----------|
| ZUKEN Portal 750-563 | URL | Download |
|----------------------|-----|----------|

Device Files

Device Driver

| | | | |
|--|-------------------------|---------------|----------|
| WAGO USB Service Kabel Treiber / Serie 750 und 857 | 6.5.3.0 2014 年9月10 日 | zip 4.8 MB | Download |
|--|-------------------------|---------------|----------|

Environmental Product Compliance

Compliance Search

| | | |
|---|-----|----------|
| Environmental Product Compliance 750-563 2-channel analog output; 0/4 ... 20 mA; 16 bits; 6 ... 18 VDC | URL | Download |
|---|-----|----------|

Installation Notes

Product family

WAGO I/O System 750/753
[Show all products from the family](#)

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