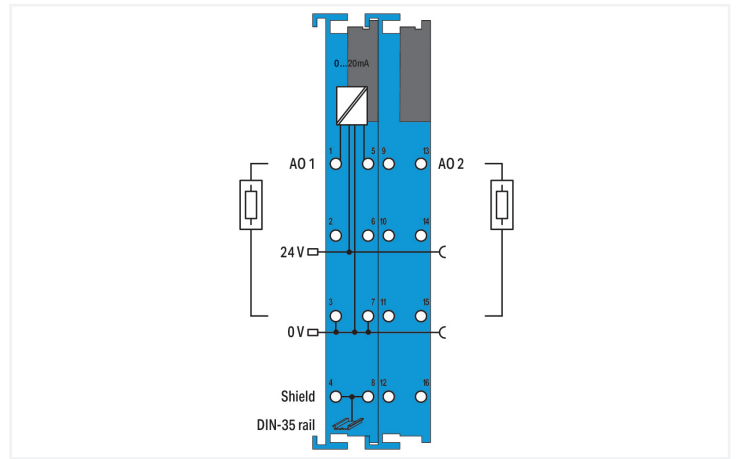
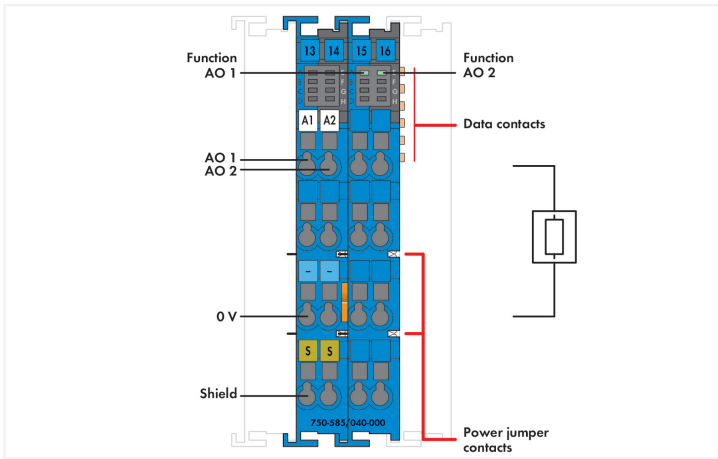


Color: ■ blue



This analog output module is designed to output intrinsically safe 0 ... 20 mA signals in hazardous areas classified as Zone 0 and Zone 1. The WAGO I/O System 750 XTR must be installed either in Zone 2 or in a non-hazardous area. Power is derived from the power jumper contacts. The outputs are short-circuit-protected.

- Indicators:
- Green LED (output status)

Field and system levels are electrically isolated.

**The device is ideal for operation in extreme environments thanks to:**

- An extended temperature range
- Greater immunity to impulse voltages and electromagnetic interference
- Higher vibration and shock resistance

## Notes

Note	The analog output module must only be operated via 24 VDC Ex i XTR power supply (750-606/040-000)! General information on explosion protection, including installation regulations, can be found in the WAGO I/O System 750 XTR manuals!
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## Technical data

Item description	2-Channel Analog Output; 0 ... 20 mA; Intrinsically safe
Number of analog outputs	2
Total number of channels (module)	2
Signal type	Current
Signal type (current)	0 ... 20 mADC
Actuator connection	2 x (2-wire)
Signal characteristics	Single-ended
Resolution [bit]	12 bits
Conversion time (typ.)	2 ms
Linearity	± 2 LSB
Output error, reference temperature	25 °C
Output error, deviation (max.) of the upper-range value	<±0.2 %
Temperature error (max.) of the output range value	<±0.01 %/K
Load impedance (current output)	≤ 500 Ω
Intrinsically safe Ex i	Yes
Data width	2 x 16-bit data
Supply voltage (system)	5 VDC; via data contacts
Current consumption (system supply)	21 mA
Supply voltage (field)	24 VDC; (Ex i XTR power supply: U <sub>o</sub> = max. 26.8 V); via power jumper contacts (supply via blade contact; distribution via spring contact)
Current consumption, field supply (module with no external load)	19 mA
Power consumption P <sub>max</sub>	1.5 W
Power loss P <sub>I</sub>	0.9 W
Isolation	300 VAC system/supply
Rated impulse withstand voltage	1 kV; Rated surge voltage between intrinsically safe and non-intrinsically safe circuits: 1.5 kV (EN 60079-11)
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	1 A
Indicators	LED (A, E) green: Function AO 1, AO 2

## Explosion protection

Identification	<b>ATEX:</b> II 3 (1) G Ex ec [ia Ga] IIC T4 Gc; II (1) D [Ex ia Da] IIIC; I (M1) [Ex ia Ma] I <b>IECEX/INMETRO:</b> Ex ec [ia Ga] IIC T4 Gc; [Ex ia Da] IIIC; [Ex ia Ma] I <b>cULus (Devision classified):</b> Class I, Div. 2, Group A B C D, T4
Ex standard	EN/IEC 60079-0, -7, -11
Safety-relevant data (circuit)	U <sub>o</sub> = 26.8 V; I <sub>o</sub> = 56.4 mA; P <sub>o</sub> = 378 mW; linear characteristic curve
Reactances Ex ia IIC	L <sub>o</sub> = 8.2 mH; C <sub>o</sub> = 0.092 μF
Reactances Ex ia IIB	L <sub>o</sub> = 46 mH; C <sub>o</sub> = 0.72 μF
Reactances Ex ia IIA	L <sub>o</sub> = 76 mH; C <sub>o</sub> = 2.37 μF
Reactances Ex ia I	L <sub>o</sub> = 100 mH; C <sub>o</sub> = 3.85 μF
Reactances (note)	Reactances without accounting for the concurrence of capacitance (C <sub>o</sub> ) and inductance (L <sub>o</sub> )

### Connection Data

Connection technology: I/O	6 x CAGE CLAMP®
Connectable conductor materials	Copper
Connection type	Inputs/outputs
Solid conductor	0.25 ... 2.5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor	0.25 ... 2.5 mm <sup>2</sup> / 24 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

### Physical data

Width	24 mm / 0.945 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
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### Material data

Color	blue
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.586 MJ
Weight	92.8 g
Conformity marking	CE

### Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Ambient temperature (installation)	-20 ... +70 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	without temperature derating: 0 ... 2000 m; with temperature derating: 2000 ... 5000 m (0.5 K/100 m); 5000 m (max.)
Mounting position	Horizontal left, horizontal up, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Relative humidity (with condensation)	Short-term condensation per Class 3K7/IEC EN 60721-3-3 and E-DIN 40046-721-3 (except for wind-driven precipitation, water and ice formation)
Vibration resistance	Per IEC 60068-2-6 (acceleration: 5g), EN 60870-2-2, IEC 60721-3-1, -3
Shock resistance	per IEC 60068-2-27 (15g/11 ms/half-sine/1,000 shocks; 25g/6 ms/1,000 shocks), EN 61373
EMC immunity to interference	per EN 61000-6-1, -2, EN 61131-2, marine applications, EN 60255-26, EN 60870-2-1, EN 61850-3, IEC 61000-6-5, IEEE 1613, VDEW: 1994
EMC emission of interference	per EN 61000-6-3, -4, EN 61131-2, EN 60255-26, marine applications, EN 60870-2-1, EN 61850-3
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
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

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143649544
Customs tariff number	85389099990

### Product Classification

UNSPSC	32151705
eCl@ss 10.0	27-24-26-01
eCl@ss 9.0	27-24-26-01
ETIM 9.0	EC001596
ETIM 10.0	EC001596
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 Perfluorobutane sulfonic acid (PFBS) and its salts
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	27bf6e79-aca7-4a6c-9ef3-91a1391edbcd
SCIP notification number (Belgium)	ed2ed39d-8d0f-4df5-a191-6f5fb212a514
SCIP notification number (Bulgaria)	8e4c3e6d-eb98-42de-aeaa-734ad0609525
SCIP notification number (Czech Republic)	4ee7bfa4-0fc6-4c15-afcd-875cac1364ee
SCIP notification number (Denmark)	65ffdaa5-c131-4f5b-a1ed-5f792a84ec16
SCIP notification number (Finland)	2f633e58-e96c-425a-a92c-ed7d4b811867
SCIP notification number (France)	059abc9e-13fd-4a76-aed0-f88c86b82001
SCIP notification number (Germany)	a1ca373a-a68e-4791-a356-0db924bca662
SCIP notification number (Hungary)	92d8ff2b-7f1b-44e0-9995-2838b5bb78e8
SCIP notification number (Italy)	cb15d83d-dc17-4618-84a0-b494c3808584
SCIP notification number (Netherlands)	98905474-f667-450a-b23b-b44cb51b4861
SCIP notification number (Poland)	ea5c3be9-8dc4-4be7-968b-26d1b4d94ef6
SCIP notification number (Romania)	997d257c-46e2-4f27-806b-6df256321cb9
SCIP notification number (Sweden)	47a311ee-d976-4562-ac62-dbf153d232f0

### Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
UL Underwriters Laboratories Inc. (ORDINARY LOCA- TIONS)	-	E175199

#### Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Ex-Declaration of Con- formity WAGO GmbH & Co. KG	-	-
UK-Ex-Declaration of Con- formity WAGO GmbH & Co. KG	-	-

**Approvals for marine applications**



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	22-2208829-PDA
DNV DNV GL SE	-	TAA00000Y7
LR Lloyds Register	-	LR22276776TA
PRS Polski Rejestr Statków	-	TE/1099/880590/23

**Approvals for hazardous areas**



Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV_17_ATEX_196484X [Ex ec]IIC T4 Gc, [Ex iaDa] IIC, [Ex iaMa] I
CCC CNEX	CNCA-C23-01	2020312310000212 (Ex ec [iaGa]IIC T4 Gc, [Ex iaDa]II-IC, [Ex iaMa]I)
IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX TUN 17.0005X (Ex ec [iaGa] IIC T4 Gc, [Ex iaDa] II-IC, [Ex iaMa] I)
UKEX Element Materials Technology UK	-	EMA21UKEX0043X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

**Downloads**

**Environmental Product Compliance**

**Compliance Search**

Environmental Product Compliance  
750-585/040-000



**Documentation**

**Manual**

Product Manual 2-channel, 0-20mA, Ex i /XTR	V 1.1.0 08.06.2020	pdf 3236.39 KB	
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**System Description**

Intrinsically Safe XTR Modules – General Product Information	pdf 214.93 KB	
Overview on WAGO-I/O-SYSTEM 750 approvals	pdf 770.48 KB	

**Bid Text**

750-585/040-000	19.02.2019	xml 8.24 KB	
750-585/040-000	08.02.2018	doc 34.00 KB	

**Instruction Leaflet**

CCC Ex (Additional information)	26.04.2023	pdf 143.50 KB	
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**CAD/CAE-Data**

**CAD data**  
2D/3D Models  
750-585/040-000

**CAE data**  
EPLAN Data Portal  
750-585/040-000

ZUKEN Portal  
750-585/040-000

**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 Inline; 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 Inline; 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 Inline; 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 Inline; 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 Inline; 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 Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



**Item No.: 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**  
Mini-WSB Inline; 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

## 1.1.2.2 Marker



**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 Power supply

### 1.1.3.1 Supply module



**Item No.: 750-606/040-000**

Power Supply; 24 VDC; Diagnostics; Intrinsically safe; Extreme

## 1.1.4 Shield termination

### 1.1.4.1 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