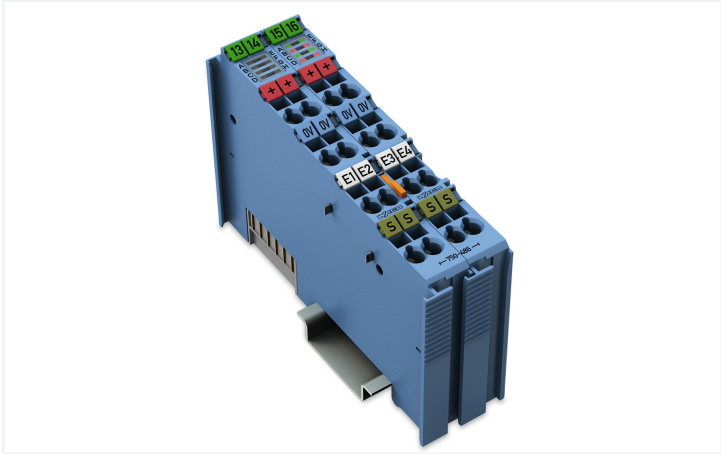
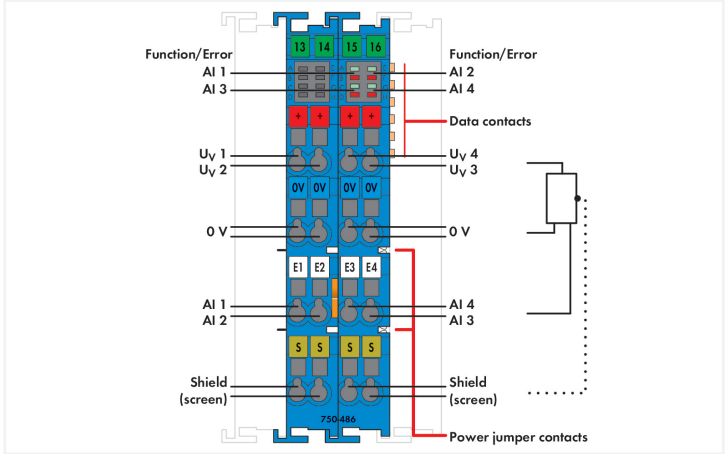
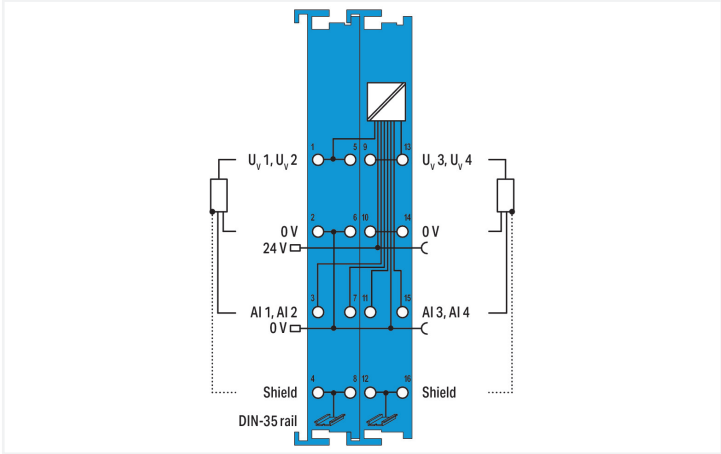
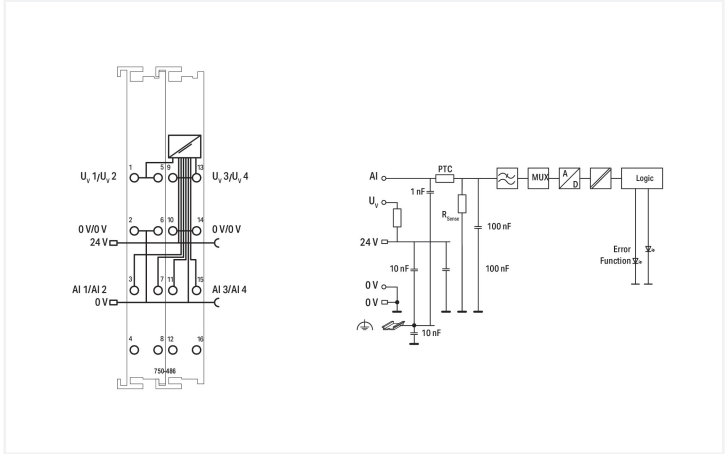




Color: blue



This analog input module powers the intrinsically safe signal conditioners located in the hazardous areas of Zone 0+1 and processes their analog signals.

The WAGO I/O System 750 must be installed either in Zone 2 or in a non-hazardous area.

The 24 V supply is derived from the module's power jumper contacts.

The transmitter supply is non-inherently electronically short-circuit-protected.

The shield directly connects to the DIN-rail.

Indicators:

- Green LED (availability ON/OFF)
- Red LED (measurement range overflow/underflow, wire breakage, short circuit)
- Field and system levels are electrically isolated.

Notes	
Note	The analog input module must only be operated via 24 VDC Ex i! General information (e.g., installation regulations) on explosion protection is available in the WAGO I/O System 750 manuals!



Technical data		
Order Text	4-Channel Analog Input; 0/4 ... 20 mA; NAMUR NE43	
Number of analog inputs	4	
Total number of channels (module)	4	
Signal type	Current	
Signal type (current)	0 ... 20 mADC; 4 ... 20 mADC	
Sensor connection	2 x (3-wire)	
Signal characteristics	Single-ended	
Sensor supply	DC 15 V	
Resolution [bit]	12 bits	
Conversion time (typ.)	10 ms	
Measurement error (reference temperature)	25 °C	
Measurement error, deviation (max.) from the upper-range value	0.1 %	
Temperature error (max.) of the upper-range value	0.01 %/K	
Input resistance (max.)	200 Ω	
Intrinsic safety Ex i	Yes	
Data width	4 x 16-bit data; 4 x 8-bit control/status (optional)	
Configuration options	WAGO-I/O-CHECK e!COCKPIT	
Supply voltage (system)	5 VDC; via data contacts	
Current consumption (5 V system supply)	45 mA	
Supply voltage (field)	24 VDC; (Ex i power supply: U _o = max. 27.3 V); via power jumper contacts (power supply via blade contact; transmission via spring contact)	
Current consumption, field supply (module with no external load)	19 mA	
Power consumption P _{max.}	2.7 W	
Power loss P _I	1.5 W	
Isolation	300 VAC system/supply	
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, C, G) green: Function AI 1 ... AI 4; LED (B, F, D, H) red: Error AI 1 ... AI 4	

Explosion protection		
Marking	ATEX/IECEx: II 3 (1) G Ex ec [ia Ga] IIC T4 Gc; II (1) D [Ex ia Da] IIIC; I (M1) [Ex ia Ma] I	
Ex standard	EN IEC 60079-0, -7, -11	
Safety-relevant data (circuit)	U _o = 27.3 V; I _o = 98.4 mA; P _o = 0.672 W; linear characteristic curve	
Reactances Ex ia IIC	L _o = 970 µH; C _o = 88 nF	
Reactances Ex ia IIB	L _o = 13 mH; C _o = 683 nF	
Reactances Ex ia IIA	L _o = 22 mH; C _o = 2.28 µF	
Reactances Ex ia I	L _o = 31 mH; C _o = 3.6 µF	
Reactances (note)	Reactances without accounting for the concurrence of capacitance (C _o) and inductance (L _o)	

Connection data		
Connection technology: inputs/outputs	16 x CAGE CLAMP®	
Connection type 1	Inputs/outputs	
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 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

Material data	
Color	blue
Housing material	Polycarbonate; polyamide 6.6
Fire load	2.033 MJ
Weight	116 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	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	
eCl@ss 10.0	27-24-26-01
eCl@ss 9.0	27-24-26-01
ETIM 8.0	EC001596
ETIM 7.0	EC001596
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
Customs tariff number	85389099990



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	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	549055d6-6f9f-4c9d-b855-7486a1d6cb3a
SCIP notification number (Belgium)	7c5e0ec5-4b5c-495e-85ab-8c4b17d0b137
SCIP notification number (Bulgaria)	485c2c34-1cda-4cc4-a49f-bdbe01d8d580
SCIP notification number (Czech Republic)	474cd881-197a-4e7f-9d9d-56ae52483311
SCIP notification number (Denmark)	7f8cc8a2-4c17-4246-901a-f36a098de931
SCIP notification number (Finland)	7602d62b-94b5-44a6-8da6-ccfea8ef5ecf
SCIP notification number (France)	60a2160b-b980-4efb-ba16-b12cd1cabb0d
SCIP notification number (Germany)	9e11c3b8-9702-4919-a91b-bda35f90810c
SCIP notification number (Hungary)	8119bf7f-3b21-48b7-ab84-a594bf80a530
SCIP notification number (Italy)	40b21ee0-9bc8-486f-9958-c6e22e9afb1b
SCIP notification number (Netherlands)	97e4e9f6-cc3f-4289-9a68-d071c0e6fa99
SCIP notification number (Poland)	f0ea8734-9828-4e42-86bd-3c858df8aa95
SCIP notification number (Romania)	8d08dea9-f978-4ce4-9dc1-dcf3e759b55f
SCIP notification number (Sweden)	c378fdab-274a-422c-a91c-1e8be031c67d

Approvals / Certificates

General approvals

EAC

KC

UL

Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 020/2011	EAC RU C-DE.AM02. B.00087/19
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-AIM750
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	-	E175199

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications		Approvals for marine applications																	
 <table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>ABS American Bureau of Ship- ping</td><td>-</td><td>22-2219060</td></tr><tr><td>DNV DNV GL SE</td><td>DNV-CG-0339,Aug.2021</td><td>TAA0000194</td></tr><tr><td>KR Korean Register of Ship- ping</td><td>-</td><td>KR HMB05880-AC001</td></tr><tr><td>LR Lloyds Register EMEA</td><td>-</td><td>LR22180952TA</td></tr></table>	Approval	Standard	Certificate Name	ABS American Bureau of Ship- ping	-	22-2219060	DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA0000194	KR Korean Register of Ship- ping	-	KR HMB05880-AC001	LR Lloyds Register EMEA	-	LR22180952TA	<table><tr><td>RINA RINA Germany GmbH</td><td>-</td><td>ELE343521XG001</td></tr></table>	RINA RINA Germany GmbH	-	ELE343521XG001
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KR Korean Register of Ship- ping	-	KR HMB05880-AC001																	
LR Lloyds Register EMEA	-	LR22180952TA																	
RINA RINA Germany GmbH	-	ELE343521XG001																	



Approvals for hazardous areas

PTB 0102 EAC IECEx		
Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV_12_ATEX_106032X (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
CCC CNEX	CNCA-C23-01	2020312310000211 (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
EAC Brjansker Zertifizierungs- stelle	TP TC 012/2011	EAC RU C-DE.AM02. B.00163/19 ([ExiaMa]I X,2Ex e[iaGa]IIC T4Gc X,[ExiaDa]IIIC X)
INMETRO TÜV Rheinland do Brasil Ltda.	-	TÜV_14.1911_X
KTL Korea Testing Laboratory	KOSHA Article 34, IEC60079-0	20-KA4BO-0606X
TUEV Nord TUEV Nord Cert GmbH	IEC 60079,IEC 60079-0	IECEx TUN 12.0039X (Ex ec[iaGa] IIC T4 Gc, [Ex iaDa] IIIC, [Ex iaMa] I)
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	UL 121201	E198726 Sec.1

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 750-486

Documentation

Manual			
Product Manual 4AI 0/4–20 mA, Ex i	V 1.1.2 21.01.2020	pdf 5472.31 KB	
System Manual WAGO I/O System 750/753	V 3.3.3 29.08.2023	pdf 8512.61 KB	

System Description		
750/753 Series I/O- System – General Pro- duct Information	pdf 953.35 KB	
Overview on WAGO-I/ O-SYSTEM 750 appro- vals	pdf 770.48 KB	
Ex i Overview	pdf 442.07 KB	

Bid Text			
750-486	19.02.2019	xml 6.40 KB	
750-486	06.10.2017	doc 32.00 KB	

Instruction Leaflet			
CCC Ex (Additional in- formation)	26.04.2023	pdf 143.96 KB	



CAD/CAE-Data	
CAD data 2D/3D Models 750-486 ↓	CAE data EPLAN Data Portal 750-486 ↓
	WSCAD Universe 750-486 ↓
	ZUKEN Portal 750-486 ↓

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; unslopped; similar to EN 60715; silver-colored	 Item No.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; copper-colored	 Item No.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; galvanized; similar to EN 60715; silver-colored	 Item No.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slopped; similar to EN 60715; silver-colored
 Item No.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; galvanized; similar to EN 60715; silver-colored	 Item No.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslopped; similar to EN 60715; silver-colored	 Item No.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored	 Item No.: 210-115 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; 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; slopped; according to EN 60715; "Hole width 25 mm; silver-colored	 Item No.: 210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slopped; galvanized; according to EN 60715; silver-colored	 Item No.: 210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; according to EN 60715; silver-colored	 Item No.: 210-505 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslopped; galvanized; 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



1.1.2.2 Marker



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 Supply module

1.1.4.1 Supply module



Item No.: 750-606
Power Supply; 24 VDC; Diagnostics; Intrinsically safe



Item No.: 750-625/000-001
Power Supply; 24 VDC; Intrinsically safe