



This analog input module processes standard  $\pm 10$  V signals. The input signal is electrically isolated and is transmitted with a resolution of 12 bits. The internal system supply powers the module. The input channels of the module are differential inputs. The shield directly connects to the DIN-rail.

Technical data	
Number of analog inputs	2
Total number of channels (module)	2
Signal type	Voltage
Signal type (voltage)	-10 ... +10 VDC
Sensor connection	2 x (2-wire)
Input voltage (max.)	35 V
Signal characteristics	Differential
Resolution [bit]	12 bits
Data width	2 x 16-bit data; 2 x 8-bit control/status (optional)
Internal resistance	570 k $\Omega$
Conversion time (typ.)	2 ms
Measurement error (reference temperature)	25 $^{\circ}$ C
Measurement error, deviation (max.) from the upper-range value	0.2 %
Temperature error (max.) of the upper-range value	0.015 %/K
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	80 mA

### Technical data

Isolation	500 V system/field
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### Connection data

Connection technology: inputs/outputs	8 x CAGE CLAMP®
Connection type 1	Inputs/outputs
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 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
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### Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.001 MJ
Weight	49 g
Conformity marking	CE

### Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Surrounding air temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree (5)	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 61000-6-2, marine applications
EMC emission of interference	per EN 61000-6-4, marine applications
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

Product Group	15 (Remote I/O)
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 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4045454481674
Customs tariff number VKOrg Germany	85389099990

### Approvals and certificates

#### Ex-Approvals



Approval	Standard	Certificate name
ATEX TUEV Nord Cert GmbH	EN 60079-0	
CCCEX CQST/CNEX	CNCA-C23-01	2020312310000215 (Ex nA 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 TUV Rheinland do Brasil Ltda.	IEC 60079-0	BR-Ex_TUV 12.1297 X
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

#### Country specific Approvals



Approval	Standard	Certificate name
EAC Brjansker Zertifizierungsstelle	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

#### Ship Approvals



Approval	Standard	Certificate name
ABS American Bureau of Shipping	-	22-2219060
BSH Bundesamt fuer Seeschifffahrt und Hydrographie	-	1104
BV Bureau Veritas S.A.	-	13453/E0 BV
DNV DNV Germany GmbH	DNV-CG-0339, Aug.2021	TAA0000194
KR Korean Register of Shipping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/2236/880590/19

#### Ship Approvals

Approval	Standard	Certificate name
RINA RINA Germany GmbH	-	ELE343521XG001

**UL-Approvals**



Approval	Standard	Certificate name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

**Downloads**

**Environmental Product Compliance**

**Compliance Search**

Environmental Product Compliance 750-456	<a href="#">↓</a>
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**Documentation**

**Manual**

2-channel, ± 10VDC, diff.	V 1.1.0	pdf 2013.54 KB	<a href="#">↓</a>
System Manual WAGO I/O System 750 / 753	V 3.1.0 11.05.2022	pdf 8495.90 KB	<a href="#">↓</a>
System Manual Series 750/753			<a href="#">↓</a>

**System Description**

750/753 Series I/O-System – General Product Information		pdf 953.35 KB	<a href="#">↓</a>
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 770.48 KB	<a href="#">↓</a>
Use in Hazardous Environments	V 1.0.0	pdf 1007.06 KB	<a href="#">↓</a>

**Additional Information**

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 259.56 KB	<a href="#">↓</a>
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**Bid Text**

750-456	19.02.2019	xml 4.18 KB	<a href="#">↓</a>
750-456	17.10.2017	doc 27.00 KB	<a href="#">↓</a>

**CAD/CAE-Data**

**CAD data**

2D/3D Models 750-456	<a href="#">↓</a>
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**CAE data**

EPLAN Data Portal 750-456	<a href="#">↓</a>
WSCAD Universe 750-456	<a href="#">↓</a>
ZUKEN Portal 750-456	<a href="#">↓</a>



Device Files

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

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

Current addresses can be found at: [www.wago.com](http://www.wago.com)