

This analog input module processes standard 4–20 mA 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 have a common ground potential.
 The module provides a 24 V power supply for a direct connection to 2-wire sensors.

Technical data

Number of analog inputs	4
Total number of channels (module)	4
Signal type	Current
Signal type (current)	4 ... 20 mADC
Sensor connection	4 x (2-wire)
Input voltage (max.)	32 V
Signal characteristics	Single-ended
Resolution [bit]	12 bits
Input resistance (max.)	100 Ω
Data width	4 x 16-bit data; 4 x 8-bit control/status (optional)
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
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	65 mA
Supply voltage (field)	24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission (supply voltage field side only) via spring contact)

Technical data

Isolation	500 V system/field
Indicators	LED (A-D) red: Error AI 1 ... AI 4
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2

Connection data

Connection technology: inputs/outputs	8 x CAGE CLAMP®
Connection type 1	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
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Material data

Housing material	Polycarbonate; polyamide 6.6
Fire load	0.967 MJ
Weight	50 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 (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 61000-6-4, 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
GTIN	4055143234665
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)	8763048f-a4ff-426e-81b2-00c5f7cc86f1
SCIP notification number (Belgium)	7084a166-f212-48d2-ad99-76677d580622
SCIP notification number (Bulgaria)	c202da74-c9a0-4441-af7a-6936ca372a4f
SCIP notification number (Czech Republic)	5f5f8e77-d5a1-4090-b5b4-4e51077b5980
SCIP notification number (Denmark)	08241b48-5182-45f4-ae1e-d1afdb7e4074
SCIP notification number (Finland)	308f76aa-071e-4784-ad6f-3bc0e5a1c550
SCIP notification number (France)	f79fa431-30ea-4445-a1d1-1d8b9e39298e
SCIP notification number (Germany)	2521c478-6d30-4ae9-a872-5dcf6f0e1d38
SCIP notification number (Hungary)	5a6734db-290e-4c39-95a6-41e6a0e50be8
SCIP notification number (Italy)	eadbeaad-6922-4513-8a31-fb291a2eeefa
SCIP notification number (Netherlands)	f0c0e1cb-c372-4525-9856-f1140a09a5fb
SCIP notification number (Poland)	dc63edb2-95c5-4c34-8aa5-b2566392fee3
SCIP notification number (Romania)	d1a76fdb-7a3d-4ceb-b993-0c0f77100e4d
SCIP notification number (Sweden)	c573a1fa-0371-4a68-b00b-60272e8c5b82

Approvals / Certificates

General approvals		
 		
Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-AIM750
UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.1

Declarations of conformity and manufacturer's declarations		
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
ABS American Bureau of Ship- ping	-	22-2219060
BSH Bundesamt fuer See- schiffahrt und Hydrogra- phie	-	1104
BV Bureau Veritas S.A.	Rules for class. of Steel Ships	66711/A0
DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA0000194
KR Korean Register of Ship- ping	-	KR HMB05880-AC001
LR Lloyds Register EMEA	-	LR22180952TA
PRS Polski Rejestr Statków	-	TE/1101/880590/23

Approvals for hazardous areas



Approval	Standard	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)
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	TUV 12.1297 X
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	UL 121201	E198726 Sec.1

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 750-455/020-000 ↓

Documentation

Manual			
Product Manual 4- channel, 4-20mA, sin- gle-ended	pdf	1939.54 KB	↓
System Manual Series 750/753			↓

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	↓

Bid Text			
750-455/020-000	19.02.2019	xml 4.33 KB	↓
750-455/020-000	17.10.2017	doc 28.00 KB	↓
ausschreiben.de 750-455/020-000			↓

Instruction Leaflet			
CCC Ex (Additional in- formation)	26.04.2023	pdf 159.76 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models
750-455/020-000

CAE data

EPLAN Data Portal
750-455/020-000

WSCAD Universe
750-455/020-000

ZUKEN Portal
750-455/020-000

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.: 210-508
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; 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; slotted; similar to EN 60715; silver-colored



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



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.: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; 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; unslotted; according to EN 60715; silver-colored



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

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



Item No.: 2009-145
Mini-WSB In-line; 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 In-line; 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.: 750-612
Power Supply; 0 ... 230 V AC/DC



Item No.: 750-602
Power Supply; 24 VDC



Item No.: 750-601
Power Supply; 24 VDC; fuse holder



Item No.: 750-610
Power Supply; 24 VDC; fuse holder; Diagnostics

1.1.5 System enclosure

1.1.5.1 System enclosure



Item No.: 850-825
 IP65 enclosure; Aluminium (RAL 7032);
 WxHxD (160x100x160 mm); 9 x M12, 4 x
 M20



Item No.: 850-826
 IP65 enclosure; Aluminium (RAL 7032);
 WxHxD (240x100x160 mm); 4 x M20, 4 x
 M16, 14 x M12 cable grip



Item No.: 850-827
 IP65 enclosure; Aluminium (RAL 7032);
 WxHxD (320x100x160 mm); 4 x M20, 8 x
 M16, 17 x M12 cable grip



Item No.: 850-828
 IP65 enclosure; Aluminium (RAL 7032);
 WxHxD (480x100x160 mm); 4 x M20, 10 x
 M16, 35 x M12 cable grip



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



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



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



Item No.: 850-834
 IP65 enclosure; Polyester (RAL 7032); Wx-
 HxD (164x100x164 mm); 9 x M12, 4 x M20



Item No.: 850-835
 IP65 enclosure; Polyester (RAL 7032); Wx-
 HxD (244x100x164 mm); 4 x M20, 4 x
 M16, 14 x M12 cable grip



Item No.: 850-836
 IP65 enclosure; Polyester (RAL 7032);
 WxHxD (324x100x164 mm); 4 x M20, 8 x
 M16, 17 x M12 cable grip



Item No.: 850-814/002-000
 IP65 enclosure; Sheet steel (RAL 7035);
 WxHxD (200x120x200 mm); without flan-
 ge plate



Item No.: 850-815/002-000
 IP65 enclosure; Sheet steel (RAL 7035);
 WxHxD (300x120x200 mm); without flan-
 ge plate



Item No.: 850-816/002-000
 IP65 enclosure; Sheet steel (RAL 7035);
 WxHxD (400x120x200 mm); without flan-
 ge plate



Item No.: 850-817/002-000
 IP65 enclosure; Sheet steel (RAL 7035);
 WxHxD (600x120x200 mm); without flan-
 ge plate