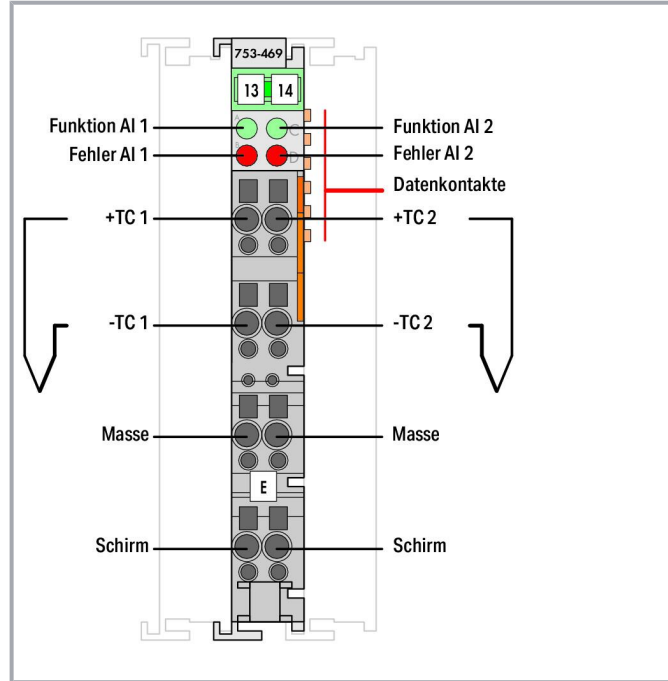


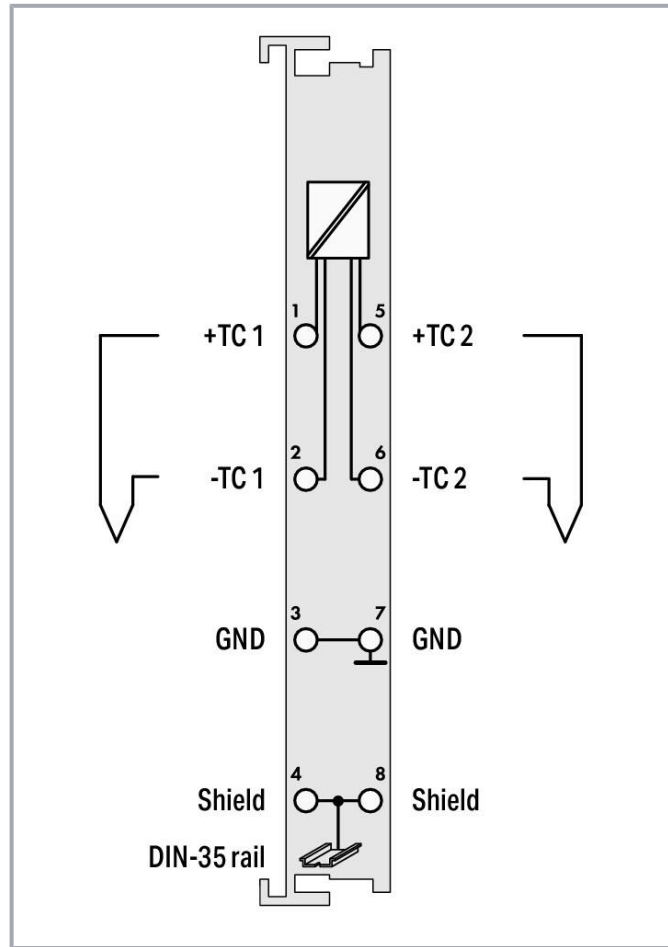
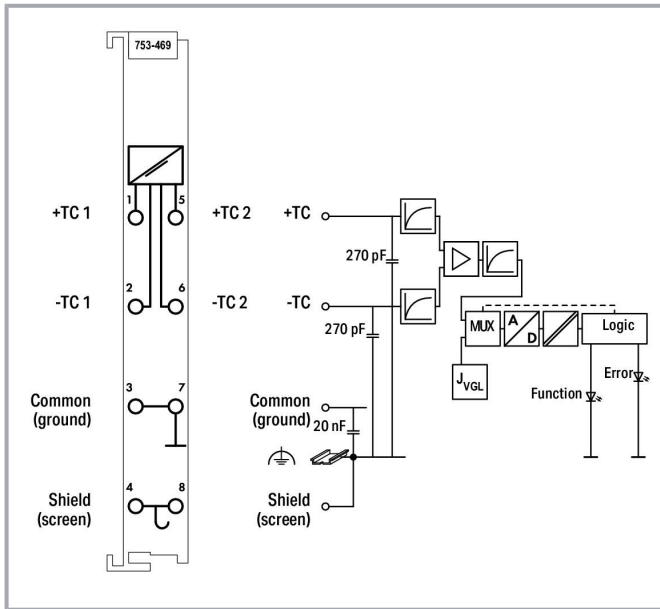
 Picture differs from the item.



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Item description

This analog input module directly connects to two thermocouples. Internal electrical isolation allows operation of grounded sensors.

The module automatically linearizes the entire temperature range.

Cold junction compensation mitigates the clamping unit offset voltage over the 0–55°C operating range.

A line break is indicated by a red LED. A green LED indicates readiness for operation and error-free communication with the coupler.

The shield directly connects to the DIN-rail.

Data

Notes

Note

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



Pluggable connectors and coding fingers (753 Series) are not included.

Technical data

Number of analog inputs	2
Total number of channels (module)	2
Signal type	Thermocouple Low voltages
Signal type (configurable)	yes
Sensor connection	2 x (2-wire)
Data width	2 x 16-bit data; 2 x 8-bit control/status (optional)
Internal resistance	1000 k Ω
Resolution (over entire range)	0.1 °C
Conversion time (typ.)	320 ms
Measurement error (25 °C)	< ± 6 K (voltage input < ± 2 K; cold junction compensation < ± 4 K)
Temperature coefficient	< ± 0.2 K/K
Sensor types	Thermocouple K; Configurable: L, J, E, T, N, U, B, R, S, mV
Temperature range	Sensor-specific
Cold junction compensation	at each pair of terminal blocks
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	65 mA
Isolation	500 V system/field
Indicators	LED (A, C) green: Function AI 1, AI 2; LED (B, D) red: Error AI 1, AI 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	9 ... 10 mm / 0.35 ... 0.39 inches

Physical data

Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69.8 mm / 2.748 inches

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



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

Mechanical Data

Mounting type	DIN-35 rail
Pluggable connector	Pluggable

Material Data

Housing material	Polycarbonate; polyamide 6.6
Fire load	0.882 MJ
Weight	43.5 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 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

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

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PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454394509
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	7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	b1e3bf70-2792-406c-80d2-9665d9d3fa95
SCIP notification number (Belgium)	04799048-3485-42b5-a890-a35831085106
SCIP notification number (Bulgaria)	b98e1e5e-a5a1-46c2-abfc-cd538e179489
SCIP notification number (Czech Republic)	0125135f-692a-4bda-b0e4-fb5dc47325b8
SCIP notification number (Denmark)	b3c518cd-7a2a-4639-a06f-7d2afcc72e9e
SCIP notification number (Finland)	2986d0b0-d843-40f8-b496-f2502c662b19
SCIP notification number (France)	20744723-0368-4744-9bbe-5df09ae64e02
SCIP notification number (Germany)	bfc48183-6547-4e59-9d87-691e00813bb8
SCIP notification number (Hungary)	13190424-84b8-4f92-99b5-b7f942f6478e
SCIP notification number (Italy)	b1033583-229c-49ab-b1a0-bbfae755e09c
SCIP notification number (Netherlands)	e7a35b9b-f474-479a-8141-ba7113fdca5c
SCIP notification number (Poland)	21fe5c18-1310-4f23-9136-2a6da31000e1
SCIP notification number (Romania)	18d6edff-1c5d-4703-a81f-bd06fe2c0614
SCIP notification number (Sweden)	f5d0003f-40dd-4a57-bbfc-ae8907f560fb

Approvals / Certificates**General approvals**

Logo	Approval	Additional Approval Text	Certificate name
	CCC CNEX	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)

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EAC
Brjansker Zertifizierungsstelle

TP TC 020/2011

EAC RU C-DE.AM02.
B.00087/19





UL
Underwriters Laboratories Inc. (ORDINARY
LOCATIONS)






UL 508

E175199 Sec.1

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
	KR Korean Register of Shipping	-	KR HMB05880- AC001
	LR Lloyds Register EMEA	-	LR22180952TA
	PRS	-	TE/2236/880590

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RINA
RINA Germany GmbH

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ELE343521XG001

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	<p>ATEX TUEV Nord Cert GmbH</p>	EN 60079-0	TUEV_14_ATEX_148929_X (II 3 G Ex ec IIC T4 Gc)
	<p>CCC CNEX</p>	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
	<p>EAC Brjansker Zertifizierungsstelle</p>	TP TC 012/2011	EAC RU C-DE.AM02.B.00163 /19 (2Ex nA IIC T4 Gc X)
	<p>IECEX TUEV Nord Cert GmbH</p>	IEC 60079-0	IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)
	<p>INMETRO TÜV Rheinland do Brasil Ltda.</p>	IEC 60079-0	BR-Ex_TÜV 12.1297 X
	<p>UKEx WAGO GmbH & Co. KG</p>	EN 60079-0	UKCA_WAGO22UKEX003X_ec
	<p>UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)</p>	UL 121201	E198726 Sec.1

Required accessories

Pluggable connector

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

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Male connector/plug



Item no.: 753-110
Plug

www.wago.com/753-110

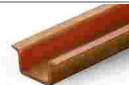
Optional accessories

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

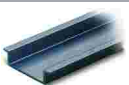
Item no.: 210-112
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

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

Pluggable connector

Coding

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

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Item no.: 753-150
753 Series coding elements


www.wago.com/753-150

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

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

 **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

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



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

Marking accessories

Marker carrier



Item no.: 750-103

Group marker carrier

www.wago.com/750-103

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

www.wago.com/2009-145/000-006



Item no.: 2009-145

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-145



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

www.wago.com/2009-145/000-002



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

www.wago.com/2009-145/000-007

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

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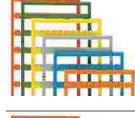




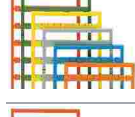
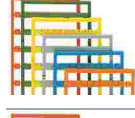

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	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red	www.wago.com/2009-145/000-005
	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll;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

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



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

Downloads

Documentation

Manual

System Manual WAGO I/O System 750/753 Decentralized Automation Technology	V 3.3.0 2023 May 4	pdf 8.8 MB	Download
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System Manual Series 750/753 Online HTML		URL	Download
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Bid Text

753-469/003-000 X81 - Datei	2019 Feb 19	xml 5.3 kB	Download
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Instruction Leaflet

CCC Ex (Additional information) WAGO-I/O-SYSTEM *750-****/*	2023 Apr 26	pdf 163.6 kB	Download
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System Description

Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 789.0 kB	Download
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750/753 Series I/O-System – General Product Information		pdf 1.7 MB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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Application Notes

Application Note CoDeSys 2.3

Application Note Library ModuleAccess_01	05.01.2016	zip	Download
These instructions describe the use of the ModuleAccess_01.lib library using 4 examples.	2016 Jan 29	1.0 MB	

Libraries

Library

ModuleAccess_01.lib	1.8.7	zip	Download
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 Jan 27	2.2 MB	

CAD/CAE-Data

CAD data

2D/3D Models 753-469/003-000	URL	Download
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CAE data

EPLAN Data Portal 753-469/003-000	URL	Download
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WSCAD Universe 753-469/003-000	URL	Download
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WSCAD Universe 753-469/003-000	URL	Download
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EPLAN Data Portal 753-469/003-000	URL	Download
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ZUKEN Portal 753-469/003-000	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 753-469/003-000	URL	Download
2-channel analog input; Thermocouple K; Diagnostics, adjustable		

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



Installation Notes

Product family

WAGO I/O System 750/753

[Show all products from the family](#)

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

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