

This analog input module processes standard 0–10 V signals.  
 The input signal is electrically isolated and is transmitted with a resolution of 16 bits.  
 The internal system supply powers the module.  
 The input channels of the module have a common ground potential.  
 The 24 V supply is derived from the power jumper contacts.  
 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)  | 0 ... 10 VDC   |
| Sensor connection  | 2 x (2-wire)   |
| Input filter frequency (analog)                                | 50 Hz  |
| Input voltage (max.)   | 24 V   |
| Signal characteristics   | Single-ended   |
| Resolution [bit]   | 16 bits  |
| Data width   | 2 x 16-bit data; 2 x 8-bit control/status (optional) |
| Noise rejection at sampling frequency                          | -100 dB  |
| Noise rejection above sampling frequency                       | -40 dB   |
| Internal resistance  | 130 kΩ   |
| Conversion time (typ.)   | 80 ms  |
| Measurement error (reference temperature)                      | 25 °C  |
| Measurement error, deviation (max.) from the upper-range value | 0.1 %  |

### Technical data

|   |   |
|---|---|
| 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)           | 75 mA   |
| Supply voltage (field)                            | 24 VDC (-25 ... +30 %); via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Isolation   | 500 V system/field  |
| 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 <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 |
|---------------|-------------|

### Material data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 1.024 MJ                     |
| Weight             | 52.5 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                                | 4045454393380   |
| Customs tariff number VKOrg Germany | 85389099990     |

### Approvals and certificates

#### Ex-Approvals



| Approval                                 | Standard       | Certificate name                                     |
|--|----------------|--|
| ATEX<br>TUEV Nord Cert GmbH              | EN 60079-0     |  |
| CCCEX<br>CQST/CNEX                       | CNCA-C23-01    | 2020312310000215 (Ex nA IIC T4 Gc)                   |
| EAC<br>Brjansker Zertifizierungsstelle   | TP TC 012/2011 | EAC RU C-DE.AM02.<br>B.00163/19 (2Ex nA IIC T4 Gc X) |
| IECEX<br>TUEV Nord Cert GmbH             | IEC 60079-0    | IECEX_TUN_14.0035_X<br>(Ex ec IIC T4 Gc)             |
| INMETRO<br>TUV Rheinland do Brasil Ltda. | IEC 60079-0    | BR-Ex_TUV 12.1297 X                                  |

#### Country specific Approvals



| Approval                               | Standard               | Certificate name                |
|--|------------------------|---------------------------------|
| EAC<br>Brjansker Zertifizierungsstelle | TP TC 020/2011         | EAC RU C-DE.AM02.<br>B.00087/19 |
| KC<br>National Radio Research Agency   | Article 58-2, Clause 3 | MSIP-REM-W43-AIM750             |

#### Ship Approvals



| Approval  | Standard              | Certificate name  |
|---|-----------------------|-------------------|
| ABS<br>American Bureau of Shipping                    | -                     | 22-2219060        |
| BSH<br>Bundesamt fuer Seeschifffahrt und Hydrographie | -                     | 1104              |
| BV<br>Bureau Veritas S.A.                             | -                     | 13453/E0 BV       |
| DNV<br>DNV Germany GmbH                               | DNV-CG-0339, Aug.2021 | TAA0000194        |
| KR<br>Korean Register of Shipping                     | -                     | KR HMB05880-AC001 |
| LR<br>Lloyds Register EMEA                            | -                     | LR22180952TA      |
| PRS<br>Polski Rejestr Statków                         | -                     | TE/2236/880590/19 |
| RINA<br>RINA Germany GmbH                             | -                     | ELE343521XG001    |

#### UL-Approvals



| Approval  | Standard | Certificate name |
|---|----------|------------------|
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 508   | E175199 Sec.1    |

## Downloads

## Environmental Product Compliance

## Compliance Search


Environmental Product Compliance 750-478




## Documentation


## Manual


|                                  |         |     |            |   |
|----------------------------------|---------|-----|------------|---|
| 2-channel, 0-10VDC, single-ended | V 1.1.0 | pdf | 2037.57 KB |  |
|----------------------------------|---------|-----|------------|---|


|   |                       |     |            |   |
|---|-----------------------|-----|------------|---|
| System Manual WAGO I/O System 750 / 753 | V 3.1.0<br>11.05.2022 | pdf | 8495.90 KB |  |
|---|-----------------------|-----|------------|---|

|                              |  |  |  |   |
|------------------------------|--|--|--|---|
| System Manual Series 750/753 |  |  |  |  |
|------------------------------|--|--|--|---|

## System Description

|   |  |     |           |   |
|---|--|-----|-----------|---|
| 750/753 Series I/O-System – General Product Information |  | pdf | 953.35 KB |  |
|---|--|-----|-----------|---|


|   |  |     |           |   |
|---|--|-----|-----------|---|
| Overview on WAGO-I/O-SYSTEM 750 approvals |  | pdf | 770.48 KB |  |
|---|--|-----|-----------|---|


|                               |         |     |            |   |
|-------------------------------|---------|-----|------------|---|
| Use in Hazardous Environments | V 1.0.0 | pdf | 1007.06 KB |  |
|-------------------------------|---------|-----|------------|---|

## Additional Information

|  |         |     |           |   |
|--|---------|-----|-----------|---|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf | 259.56 KB |  |
|--|---------|-----|-----------|---|


## Bid Text

|         |            |     |          |   |
|---------|------------|-----|----------|---|
| 750-478 | 19.10.2017 | doc | 28.00 KB |  |
|---------|------------|-----|----------|---|


|         |            |     |         |   |
|---------|------------|-----|---------|---|
| 750-478 | 19.02.2019 | xml | 4.46 KB |  |
|---------|------------|-----|---------|---|


## CAD/CAE-Data

## CAD data

|                      |  |  |  |   |
|----------------------|--|--|--|---|
| 2D/3D Models 750-478 |  |  |  |  |
|----------------------|--|--|--|---|

## CAE data


|                           |  |  |  |   |
|---------------------------|--|--|--|---|
| EPLAN Data Portal 750-478 |  |  |  |  |
|---------------------------|--|--|--|---|

|                        |  |  |  |   |
|------------------------|--|--|--|---|
| WSCAD Universe 750-478 |  |  |  |  |
|------------------------|--|--|--|---|

|                      |  |  |  |   |
|----------------------|--|--|--|---|
| ZUKEN Portal 750-478 |  |  |  |  |
|----------------------|--|--|--|---|

## Device Files

## Device Driver

|  |                       |     |            |   |
|--|-----------------------|-----|------------|---|
| WAGO USB Service Kabel Treiber / Serie 750 und 857 | 6.5.3.0<br>10.09.2014 | zip | 4721.96 KB |  |
|--|-----------------------|-----|------------|---|