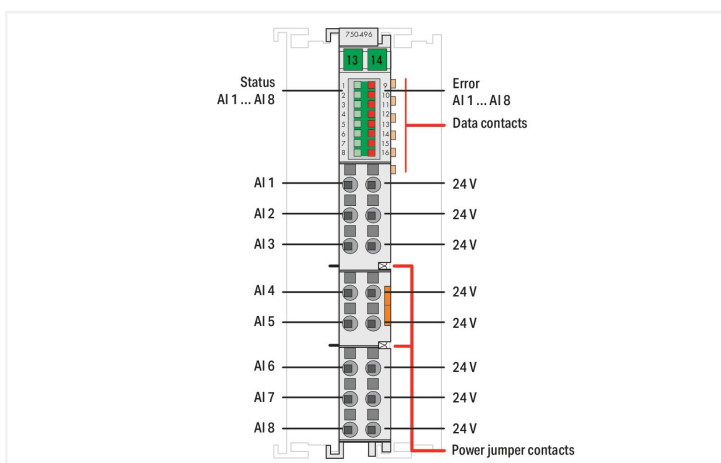
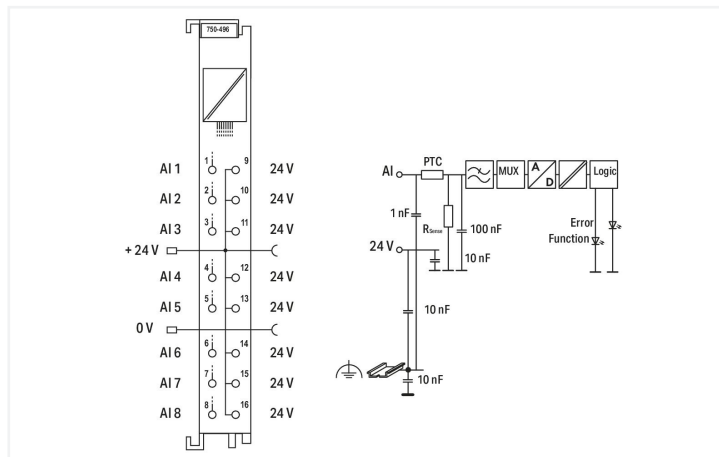


Data Sheet | Item Number: 750-496
8-channel analog input; 0/4 ... 20 mA; Single-ended

<https://www.wago.com/750-496>



This analog input module processes standard 0–20 mA, 4–20 mA and 3.6–21 mA (Namur NE43) signals. The module provides a 24 V power supply for a direct connection to 2-wire sensors. The input signal is electrically isolated and is transmitted with a resolution of 12 bits. Wire break, short circuit and out-of-measurement range are indicated by a red LED. Unused channels can be deactivated. The module can be configured via WAGO-I/O-CHECK or GSD files. It features an extremely compact design and low measurement errors.

Technical data

| | |
|--|--|
| Number of analog inputs | 8 |
| Total number of channels (module) | 8 |
| Signal type | Current |
| Signal type (current) | 0 ... 20 mA DC; 4 ... 20 mA DC; 3.6 ... 21 mA DC |
| Signal type (configurable) | Yes |
| Sensor connection | 8 x (2-wire) |
| Input voltage (max.) | 31.2 V |
| Resolution [bit] | 12 bits |
| Input resistance (max.) | 220 Ω |
| Data width | 8 x 16-bit data; 8 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 |
| Configuration options | WAGO-I/O-CHECK CODESYS Library e!COCKPIT |

Technical data

| | |
|--|---|
| Supply voltage (system) | 5 VDC; via data contacts |
| Current consumption (5 V system supply) | 69 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 |
| Indicators | LED (1-8) green: Status AI 1 ... AI 8; LED (9-16) red: Error AI 1 ... AI 8 |
| Number of incoming power jumper contacts | 2 |
| Number of outgoing power jumper contacts | 2 |

Connection data

| | |
|---------------------------------------|--|
| Connection technology: inputs/outputs | 16 x Push-in CAGE CLAMP® |
| Connection type 1 | Inputs/outputs |
| Solid conductor | 0.08 ... 1.5 mm ² / 28 ... 16 AWG |
| Fine-stranded conductor | 0.25 ... 1.5 mm ² / 22 ... 16 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 mm / 2.717 inches |
| Depth from upper-edge of DIN-rail | 61.8 mm / 2.433 inches |

Mechanical data

| | |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

Material data

| | |
|--------------------|------------------------------|
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 0.837 MJ |
| Weight | 62 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 |
| EMC emission of interference | per EN 61000-6-3 |
| 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 | 4055143350365 |
| Customs tariff number | 85389099990 |

Environmental Product Compliance

| | |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|