



This analog input module processes both voltage and current differential signals.

- 0 ... 20 mA, 4 ... 20 mA, 3.6 ... 21 mA NE43, ±20 mA, 0 ... 10 V, ±10 V, ±200 mV
- Channel-wise parameterizable measurement ranges
- Electrically isolated channels
- 16-bit resolution

A wire break, overload or out-of-measurement range are indicated channel by channel via red LED depending on the set measurement range. The module can be configured via GSD file, e!COCKPIT and WAGO-I/O-CHECK.

Technical data

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|-----------------------------------|--|
| Number of analog inputs | 4 |
| Total number of channels (module) | 4 |
| Signal type | Voltage Current |
| Signal type (current) | 0 ... 20 mADC; 4 ... 20 mADC; 3.6 ... 21 mADC; -20 ... +20 mADC |
| Signal type (voltage) | 0 ... 10 VDC; -10 ... +10 VDC; -0.2 ... +0.2 VDC |
| Signal type (configurable) | Yes |
| Sensor connection | 4 x (2-wire) |
| Input filter | 50 Hz; 60 Hz; filter off |
| Input voltage (max.) | 31.2 VDC |
| Signal characteristics | Differential |
| Diagnostics | Measurement range overflow/underflow; wire break in operating mode 4 ... 20 mA and 3.6 ... 21 mA NE43; overload in operating mode 0 ... 20 mA, 4 ... 20 mA, ±20 mA, 3.6 ... 21 mA NE43 |
| Resolution [bit] | 16 bits |
| Input resistance (max.) | 120 Ω |

Technical data

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| Data width | 4 x 16-bit data; 4 x 8-bit control/status (optional) |
| Internal resistance | 100 kΩ |
| Conversion time (typ.) | 10 ms |
| Conversion time | Exception: The ±200 mV measurement range has a conversion time of 10 s and is therefore only suitable for slow systems. |
| Reference for measurement error | Input ranges |
| Measurement error (reference temperature) | 25 °C |
| Measurement error, deviation (max.) from the upper-range value | 0.1 % |
| Reference for measurement error (2) | ±200 mV |
| Measurement error, reference temperature (2) | 25 °C |
| Measurement error, deviation (max.) of the upper-range value (2) | 0.3 % |
| Temperature error (max.) of the upper-range value | 0.01 %/K |
| Configuration options | WAGO-I/O-CHECK CODESYS Library e!COCKPIT |
| Supply voltage (system) | 5 VDC; via data contacts |
| Current consumption (5 V system supply) | 100 mA |
| Supply voltage (field) | 24 VDC; via power jumper contacts (power supply via blade contact; transmission via spring contact) |
| Isolation | Functional insulation: 2000 VDC system/channel; 2000 VDC channel/channel |
| Indicators | LED (A-D) green: Function AI 1 ... AI 4; LED (E-H) red: Error AI 1 ... AI 4 |
| Number of incoming power jumper contacts | 2 |
| Number of outgoing power jumper contacts | 2 |
| Current carrying capacity (power jumper contacts) | 10 A |

Connection data

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|---------------------------------------|-----------------------------------|
| Connection technology: inputs/outputs | 8 x CAGE CLAMP® |
| Connection type 1 | Inputs/outputs |
| Solid conductor | 0.08 ... 2.5 mm² / 28 ... 14 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm² / 28 ... 14 AWG |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inches |

Physical data

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|-----------------------------------|------------------------|
| 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

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

Material data

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| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 0.967 MJ |
| Weight | 51.2 g |
| Conformity marking | CE |

Environmental requirements

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|--|---------------------------------------|
| 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

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| 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 | 4055143764520 |
| Customs tariff number | 85389099990 |