



High
Functionality

Isolation Amplifier DN 2300

Isolation Of Standard Signals
With ZERO/SPAN Adjustment

With the Isolation Amplifier DN 2300 DRAGO is extending its offer on high-functional and high-reliable components of the interface technique.

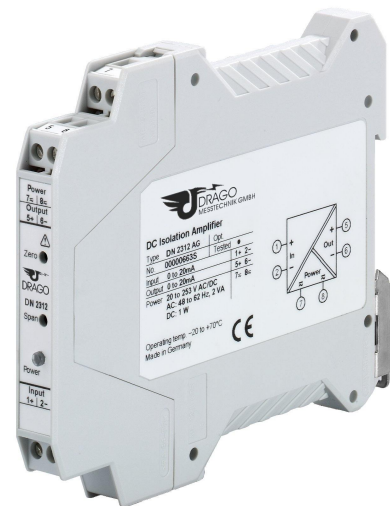
The Isolation Amplifier DN 2300 is used for electrical separation of 0(4) to 20 mA signals. The Zero/Span adjustment on the front panel, the new universal power pack, and the compact design all contribute to its application flexibility. High reliability and Protective Separation are further characteristics that contribute to fault-free equipment operation.

The slim housing with 12.5 mm width saves space in the switch cabinet and facilitates by the practical plug-in screw terminal blocks the assembly.

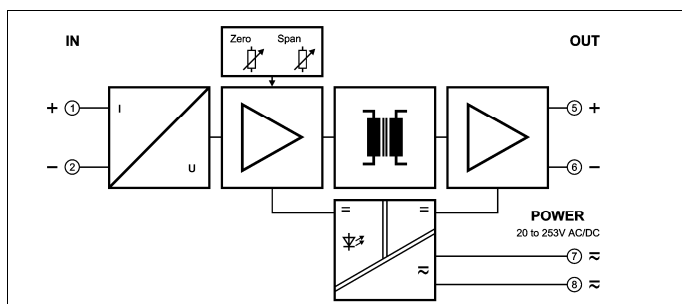
The new universal power pack for 20 ... 253 V AC/DC means the DN 2300 can be used anywhere in the world, with all mains power supplies. The unit's high efficiency contributes significantly to reducing the unit's own heat generation. This is reflected in extremely high reliability and long-term stability. A green LED on the front of the unit has been provided to monitor the power supply.

5 Years Warranty
Defects occurring within 5 years from delivery are remedied free of charge at our plant (carriage and insurance paid by sender).

- **Zero/Span Adjustment**
Measurement range compensation on the front panel
- **Universal Power Supply for 20 ... 253 V AC/DC**
Applicable world-wide for all common supply voltages
- **3-port isolation**
Protection against erroneous measurements due to parasitic voltages or ground loops
- **Ultra-small-sized housing**
12.5 mm housing with plug-in screw terminal blocks
- **High accuracy**
No falsification of measured signal
- **Protective Separation**
Protects service personnel and downstream devices against impermissibly high voltage
- **Maximum reliability**
No maintenance costs
- **5 Years Warranty**



Block diagram

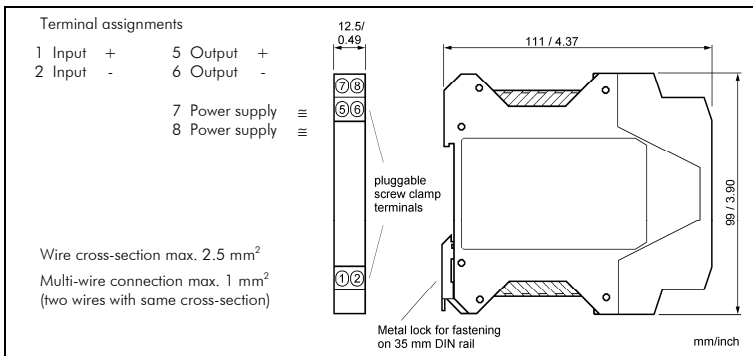


Technical Data

| | | |
|---|---|---|
| Input | | |
| Input signal ¹⁾ | 0(4) ... 20 mA | |
| Input resistance | Approx. 25 Ω | |
| Overload | ≤ 200 mA | |
| Output | | |
| Output signal ¹⁾ | 0(4) ... 20 mA | |
| Load | ≤ 12 V (600 Ω @ 20 mA) | |
| Linear transmission range | - 2 ... + 110 % | |
| Ripple | < 10 mV _{rms} | |
| General Data | | |
| Transmission error | 0.1 % of final value | |
| Temperature coefficient ²⁾ | 100 ppm/K of final value | |
| Zero/Span compensation | ± 5 % | |
| Cut-off frequency (-3 dB) | > 1 kHz | |
| Test voltage | 4 kV, 50 Hz | input against output against power supply |
| Working voltage ³⁾ (Basic Insulation) | Up to 600 V AC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010-1 between all circuits. | |
| Protection against electrical shock ³⁾ | Protective separation according to EN 61140 by reinforced insulation in accordance with EN 61010-1 up to 300 V AC/DC for overvoltage category II and pollution degree 2 between all circuits. | |
| Ambient temperature | Operation | -20 to +70 °C (-4 to +158 °F) |
| | Transport and storage | -35 to +85 °C (-31 to +185 °F) |
| Power supply | 20 ... 253 V AC/DC | AC 48 ... 62 Hz, approx. 2 VA DC approx. 1.0 W |
| EMC ⁴⁾ | EN 61326 -1 | |
| Construction | 12.5 mm housing, protection class: IP 20 | |
| Weight | Approx. 100 g | |

- 1) Other signals on request.
- 2) Average TC in specified operating temperature range
- 3) As far as practicable the standards and rules mentioned above are considered by development and production of our devices. In addition the assembly rules for our devices are to be considered by installation in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.
- 4) Minor deviations possible during interference

Dimensions



Product line

| Devices | Input | Output | Order No. |
|---|----------------|----------------|------------|
| Isolation Amplifier with Zero/Span-compensation | 0(4) ... 20 mA | 0(4) ... 20 mA | DN 2312 AG |

Subject to change!