

**High
Functionality**

Isolation Amplifier DN 2400

Isolation And Conversion Of Standard Signals in Low-cost Applications

With the Isolation Amplifier DN 2400 DRAGO offers a cheap alternative for industrial standard applications.

The Isolation Amplifier DN 2400 is used for isolation and conversion of 0 ... 20 mA, 4 ... 20 mA and 0 ... 10 V standard signals. Its high level of reliability and cost optimized design make the DN 2400 the first choice in its class!

Unique in its price class, the DN 2400 provides application flexibility thanks to the calibrated range selection and the new universal power pack.

The desired input and output range can be easily set by using DIP switch and due to the calibrated range selection no further adjustment is necessary.

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. For range selection a simple housing unblocking is installed which makes it possible to reach easily all control elements on the mounting rail.

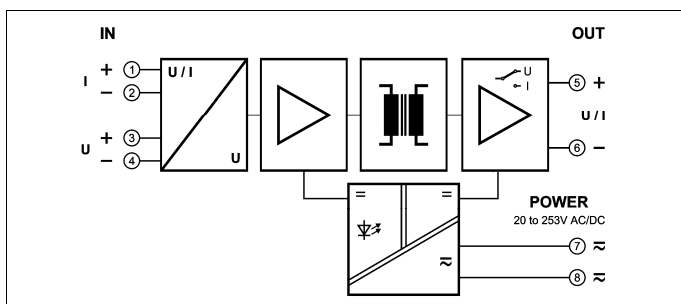
In cause of the new universal power supply for 20 ... 253 V AC/DC the Isolation Amplifier DN 2400 is applicable world-wide for all common supply voltages.

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

- **Cost optimized design**
Economical separation for standard applications
- **Calibrated signal setting**
Input and output range can be set by using DIP switch - without any further adjustment
- **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
- **Maximum reliability**
No maintenance costs
- **5 Years Warranty**



Block diagram



Technical Data

Input				
Input signal	0 ... 20 mA¹⁾	4 ... 20 mA	0 ... 10 V	terminal/switch selectable
Input resistance	Current input		22 Ω	
	Voltage input		1 MΩ	
Overload	Current input		≤ 200 mA	
	Voltage input		Voltage limitation via 30 V Z-Diode, max. continuous current 30 mA	
Output				
Output signal	0 ... 20 mA¹⁾	4 ... 20 mA	0 ... 10 V	switch selectable
Load	Current output		≤ 10 V	(500 Ω @ 20 mA)
	Voltage output		≤ 10 mA	(1 kΩ @ 10 V)
Offset	20 μA / 10 mV			
Ripple	< 20 mV _{rms}			
General Data				
Transmission error	0.3 % of measured value			
Temperature coefficient ²⁾	150 ppm/K of final value			
Cut-off frequency (-3 dB)	Approx. 1 kHz			
Test voltage	2.5 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.			
Ambient temperature	Operation	-10 to +60 °C	(+14 to +140 °F)	
	Transport and storage	-20 to +80 °C	(-4 to +176 °F)	
Power supply	20 ... 253 V AC/DC		AC 48 ... 62 Hz, approx. 3 VA	
			DC approx. 1.5 W	
EMC ⁴⁾	EN 61326 -1			
Construction	12.5 mm housing, protection type: IP 20			
Weight	Approx. 100 g			

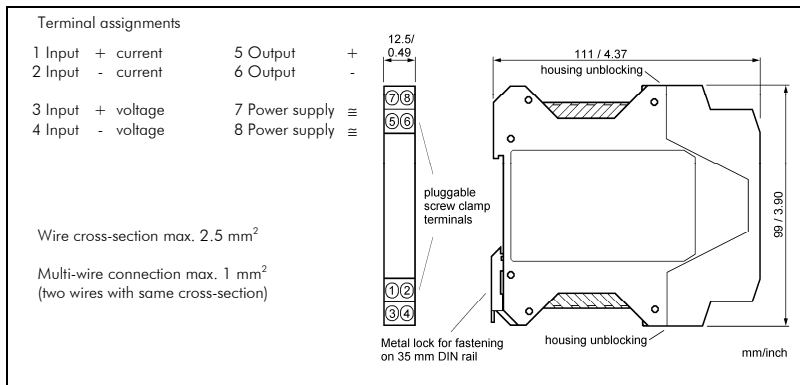
1) factory setting

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

Model	Order No.
Isolation Amplifier, calibrated range selection	DN 2400 AG

Subject to change!