

High
Functionality

Shunt Isolation Amplifier DS 7400

Isolation And Conversion Of mV-Signals in Low-Cost Applications

With the Isolation Amplifier for Shunt Voltage DS 7400 DRAGO offers a cheap alternative for industrial standard applications.

The Isolation Amplifier DS 7400 is used for separation and conversion mV-signals such as those frequently used for current measuring with shunt-resistors or other applications. Its high level of reliability and cost optimized design make the DS 7400 the first choice in its class!

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.

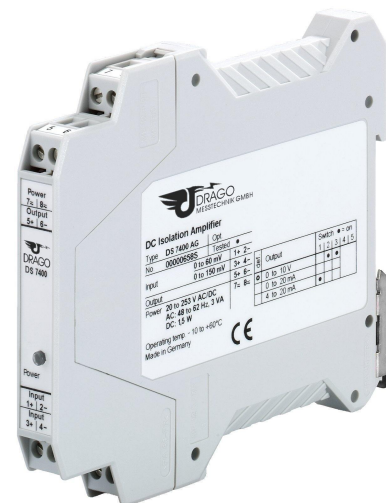
The slim housing with 12.5 mm width saves space in your switch cabinet and facilitates by the practical plug-in screw terminal blocks the assembly.

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

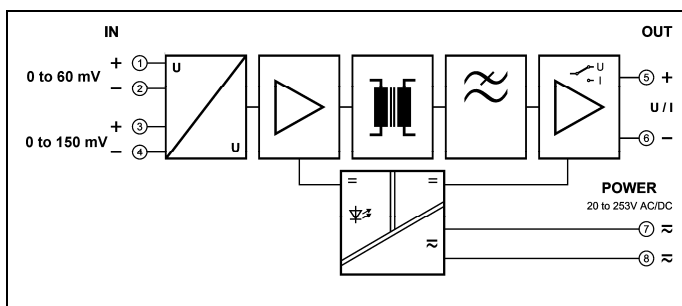
In cause of the new universal power pack for 20...253 V AC/DC the Isolation Amplifier DS 7400 is applicable world-wide for all common supply voltages. To control the power supply a green LED is installed on the front panel.

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

- **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

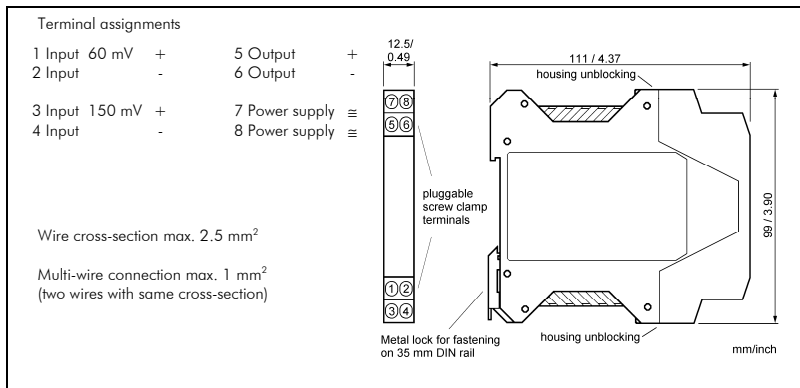


Technical data

Input				
Input signals	0 ... 60 mV	0 ... 150 mV	terminal selectable	
Input resistance	> 25 k Ω			
Input capacitance	Approx. 1 nF			
Overload	\leq 30 V			
Output				
Output signals	0 ... 10 V¹⁾	0 ... 20 mA	4 ... 20 mA	switch selectable
Load	Current output	\leq 10 V		(500 Ω @ 20 mA)
	Voltage output	\leq 10 mA		(1 k Ω @ 10 V)
Offset	20 μ A / 10 mV			
Ripple	< 20 mV _{rms}			
General data				
Transmission error	0.3 % 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 class: IP 20			
Weight	Approx. 100 g			

- 1) **factory setting**
- 2) Average TC in specified operating temperature range
- 3) As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices 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	Order No.
Isolation Amplifier	DS 7400 AG

Subject to change!