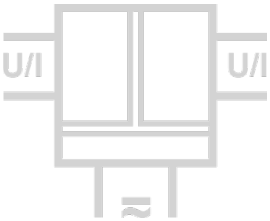
ICS SCHNEIDER MESSTECHNIK

Customer-Specific Isolation Amplifier IS 8000

Isolation and Conversion of Industrial Signals in Special Applications



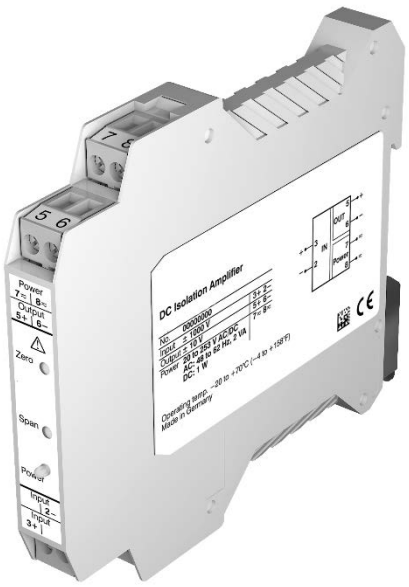
The Isolation Amplifier IS 8000 is used for isolation and conversion of customer-specific industrial signals.

When it comes to individualized solutions, the know-how advantage of our development team stands ready to serve. This allows us to offer customer-specific solutions with the proverbial DRAGO quality in the shortest possible time; solutions which, as a result of individualized consultation, optimally meet all customer needs, including their economic ones.

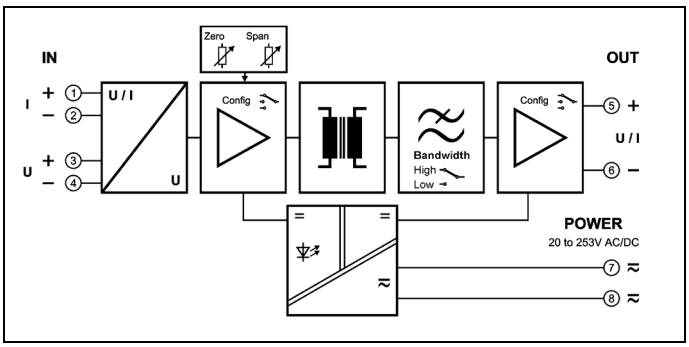
The slim housing with 12.5 mm width saves space in the switch cabinet and facilitates by the practical plug-in screw terminal blocks the assembly.

The new universal power pack for 20 ... 253 V AC/DC means the IS 8000 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.

- **Customer-Specific Solutions**
  Special Input and output range on request
- **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**
  Defects occurring within 5 years from delivery date shall be remedied free of charge at our plant (carriage and insurance paid by sender)



Block diagram



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Technical Data

Input		
Input signal	Customer-specific technical data as orders (see label)	
Input resistance	Current input Voltage input	approx. 25 Ω (depends on measuring range) approx. 1 MΩ (depends on measuring range)
Overload	Max. 120 % of final value	
Output		
Output signal	Customer-specific technical data as orders (see label)	
Load	Current output Voltage output	≤ 12 V (600 Ω at 20 mA) ≤ 20 mA (500 Ω at 10 V)
Transmission range	unipolar: - 2 ... + 110 %	bipolar: - 110 ... + 110 %
Residual ripple	< 10 mV_{rms}	
General Data		
Transmission error	Typical 0.1 % full scale (max. 0.3 %, depends on measuring range)	
Temperature coefficient[1)]	< 100 ppm/K	
Zero/Span Adjustment	Optional	
Cut-off frequency (-3 dB)	Max. 10 kHz	
Test voltage	4 kV AC, 50 Hz, 1 min.	input against output against power supply
Working voltage[2)] (Basic Insulation)	1000 V AC/DC for overvoltage category II and pollution degree 2 acc. to EN 61010-1	
Ambient temperature	Operation Transport and storage	- 20 to + 70 °C (-4 to + 158 °F) - 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[3)]	EN61326 -1	
Construction	12.5 mm (0.49") housing, protection class IP 20, mounting on 35 mm DIN rail acc. to EN 60715	
Weight	Approx. 100 g	

1) Average TC related to full scale value in specified operating temperature range, reference temperature 23 °C
2) For applications with high working voltages, ensure there is sufficient spacing or isolation from neighboring devices and protection against electric shocks.
3) Minor deviations possible during interference

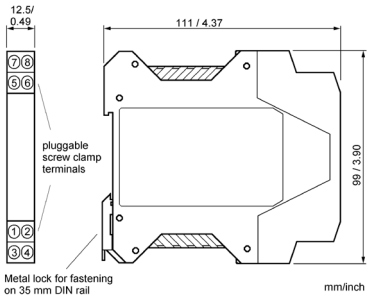
Dimensions

Terminal assignments

1 Input	+	5 Output	+	
2 Input	-	6 Output	-	
3 Input	+	7 Power	≅	
4 Input	-	8 Power	≅	

Wire cross-section max. 2.5 mm^2

Multi-wire connection max. 1 mm^2
(two wires with same cross-section)



Subject to change!

Product line

Device	Order No.
Customer-Specific Isolation Amplifier	IS 8000 - XXX

The index number -XXX describes the signal combination and will be announced by order.

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