

Bipolar Isolation Amplifier IS 6200

Isolation and Conversion of Bipolar and Unipolar Industrial Standard Signals

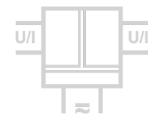
The Isolation Amplifier **IS** 6200 is used for isolation and conversion of bipolar and unipolar industrial signals.

Due to the easy selection of the input and output ranges, the new universal power supply and the ultra-small housing the Isolation Amplifier is suitable for flexible use. High reliability and Protective Separation are further characteristics that make the **IS** 6200 unrivaled.

The order key allows you to select the desired input and output ranges to which the unit will be adjusted at the factory before delivery. These can be easily reconfigured at any time by means of DIP switch settings. Subsequent readjustment or measured range compensation can then be performed at the zero/scan potentiometers on the front panel. Also the cut-off frequency can be adapted to the measurement task by using the DIP Switch.

The small 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 setting a simple housing unblocking is installed which makes it possible to reach easily all control elements on the mounting rail.

The new universal power pack for 20 ... 253 V AC/DC means the **IS** 6200 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.



- Easy selection of input and output range Input and output range for unipolar and bipolar signals can be easily set by using DIP switch
- 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 bandwidth; high accuracy No distortion; no falsification of measured signal
- Protective Separation Protects service personnel and downstream devices against impermissibly high voltage
- Maximum reliability

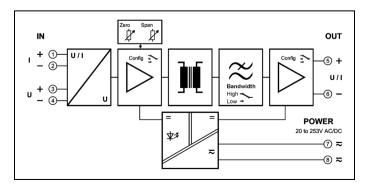
No maintenance costs

• 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



ICS Schneider Messtechnik GmbH Briesestraße 59 D-16562 Hohen Neuendorf / OT Bergfelde Tel.: 03303 / 50 40 66 Fax.: 03303 / 50 40 68



Technical Data

Input	Voltage			Current			
Input signals	± 10 V	0 10 V	2 10 V	± 20 mA	0 20 mA	4 20 mA	
(terminal/switch selectable)	± 5 V	0 5 V	1 5 V	± 10 mA	0 10 mA	2 10 mA	
Input resistance	Approx. 1 M	AΩ		Approx. 25	Ω		
Input capacitance	Approx. 1 n	F		Approx. 1 n	F		
Overload	Voltage limi	tation via 30	V Z-Diode,	≤ 200 mA			
	max. continuous current 30 mA						
Output	Voltage			Current			
Output signals	±10 V	0 10 V	2 10 V	$\pm 20 \text{ mA}$	0 20 mA	4 20 mA	
(switch selectable)	± 5 V	0 5 V	1 5 V	\pm 10 mA	0 10 mA	2 10 mA	
Load	≤ 10 mA	(1 kΩ at 10 ')	≤12 V (0	600 Ω at 20 mA)		
Linear transmission range	unipolar: - 2	2 + 110 %	bipolar: - 110 +	- 110 %			
Residual ripple	$< 10 \text{ mV}_{rms}$						
General Data							
Transmission error	< 0.1 % ful	l scale					
Temperature coefficient ¹⁾	< 100 ppm	n/K					
Zero/Span compensation	±10 %						
Cut-off frequency -3 DC (switchable)	10 kHz	30 Hz					
Response time T ₉₉	80 µs	20 ms					
Test voltage	4 kV AC, 50	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						
Protection against electrical shock ²⁾		Protective separation according to EN 61140 by reinforced insulation in accordance with EN 61010-					
		/ AC/DC for c	overvoltage category II			all circuits	
Ambient temperature	Operation		- 20 to + 70 °C		'		
	Transport a		- 35 to + 85 °C	1	5 °F)		
Power supply	20 253 \	/ AC/DC	AC 48 62 Hz, a	pprox. 2 VA			
			DC approx. 1.0 W				
EMC ³⁾	EN 61326 -						
Construction	12.5 mm (C	0.49") housing	, protection class IP 20), mounting on	35 mm DIN rail o	acc. to EN 60715	
Weight Average TC related to full scale value in specified operat	Approx. 100						

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

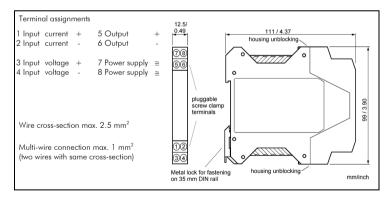
Ordering Table For Factory Setting

IS 6200 AG	- XX Input	- YY Output	
Range	XX/YY		
± 10 V	00	± 20 mA	06
0 10 V	01	0 20 mA	07
2 10 V	02	4 20 mA	08
± 5 V	03	± 10 mA	09
0 5 V	04	0 10 mA	10
1 5 V	05	2 10 mA	11

Example:

Input: ± 5 V, Output: 4 ... 20 mA Order No.: **IS** 6200 AG - 03 - 08

Dimensions



Subject to change!

Product line

Device	Order No.
Bipolar Isolation Amplifier, configurable	IS 6200 AG - XX - YY

If no information is given by ordering, the devices are delivered with the standard configuration: Input signal \pm 10 V, Output signal \pm 10 V.

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