

Product Datasheet - Technical Specifications



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Bipolar Isolation Amplifier DB 6200

Isolation and Conversion of Bipolar and Unipolar Industrial Standard Signals

The Isolation Amplifier DB 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 DB 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 DB 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 erroneou

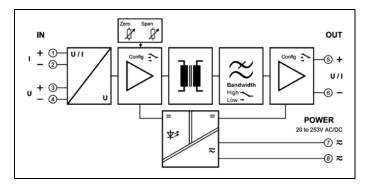
Protection against erroneous measurements due to parasitic voltages or ground loops

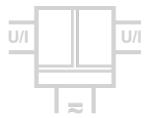
- Ultra small sized housing 12.5 mm housing with plug-in screw terminal blocks
- High bandwidth; high accuracy No distortion; no falsification of measured signal
- Protective Separation Protects service personnel and downstream devices against impermissibly high voltage
- Maximum reliability No maintenance 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









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	MΩ		Approx. 25	Ω	
Input capacitance	Approx. 1			Approx. 1 n	F	
Overload	Voltage lin	nitation via 30	V Z-Diode,	≤ 200 mA		
	max. conti	nuous current	30 mA			
Output	Voltage			Current		
Output signals	± 10 V	0 10 V	2 10 V	± 20 mA	0 20 mA	4 20 mA
(switch selectable)	± 5 V	0 5 V	1 5 V	± 10 mA	0 10 mA	2 10 mA
Load	≤ 10 mA	(1 kΩ at 10	V)	≤ 12 V (600 Ω at 20 mA)	
Linear transmission range	unipolar: -	2 + 110 %	6 bipolar: - 110 +	110 %		
Residual ripple	$< 10 \text{ mV}_{rr}$	ns				
General Data						
Transmission error	< 0.1 % ft	ull scale				
Temperature coefficient ¹⁾	< 100 pp	m/K				
Zero/Span compensation	± 10 %					
Cut-off frequency -3 dB (switchable)	10 kHz	30 Hz				
Response time T ₉₉	80 µs	20 ms				
Test voltage	4 kV AC, 5	50 Hz, 1 min.	Input against output	against power	r supply	
Working voltage ²⁾ (Basic Insulation)	1000 V A0	C/DC for over	oltage category II and p	ollution degree	e 2 acc. to EN 61	010-1
Protection against electrical shock ²⁾			ording to EN 61140 by re overvoltage category II a			
Ambient temperature	Öperation		- 20 to + 70 °C		•	
	Transport	and storage	- 35 to + 85 °C	(- 31 to + 18	35 °F)	
Power supply	20 253	V AC/DC	AC 48 62 Hz, ap	prox. 2 VA		
,			DC approx. 1.0 W			
EMC ³⁾	EN 61326	-1				
Construction	12.5 mm (0.49") housing, protection class IP 20, mounting on 35 mm DIN rail acc. to EN 60715					
Weight	Approx. 10)0 a		-		

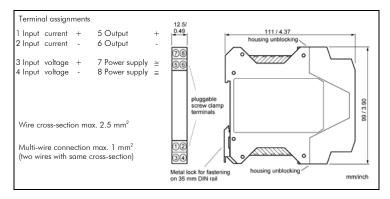
Ordering Table For Factory Setting

DB 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.: DB 6200 AG - 03 - 08

Dimensions



Subject to change!

Product line

Device	Order No.
Bipolar Isolation Amplifier, configurable	DB 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.