# Isolation Amplifier IS 2000 

Isolation and Conversion of Standard Signals

The Isolation Amplifier DN 2000 is used for isolation and conversion of $0 \ldots 20 \mathrm{~mA}, 4 \ldots 20 \mathrm{~mA}$ and $0 . . .10 \mathrm{~V}$ standard signals.

Due to the calibrated selection of the input and output ranges, the new universal power supply and the ultrasmall housing the Isolation Amplifier is suitable for flexible use. The high reliability and the protective separation are further features, which ensure a safe system operation.

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. Also the cutoff frequency can be adapted to the measurement task by using the DIP Switch. Alternatively, all signal combinations are also available in the form of fixed range units.

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. A simple housing latch has been provided for range setting purposes to make all the operating elements, including those on the DIN-rail, easily accessible.

The new universal power pack for 20 ... 253 V AC/DC means the IS 2000 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.


- 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
- 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


## Technical Data



## Product line

| Device |  | Order No. |  |
| :--- | :--- | :--- | :--- |
| Isolation Amplifier | calibrated range selection | IS 2000 AG |  |
| Isolation Amplifier <br> fixed setting | Input | Output |  |
|  | $0 \ldots 20 \mathrm{~mA}$ | $0 \ldots 20 \mathrm{~mA}$ | IS 2012 AG |
|  | $4 \ldots 20 \mathrm{~mA}$ | $0 \ldots 20 \mathrm{~mA}$ | IS 2032 AG |
| $0 \ldots 10 \mathrm{~V}$ | $0 \ldots 20 \mathrm{~mA}$ | IS 2052 AG |  |
| $0 \ldots 20 \mathrm{~mA}$ | $4 \ldots 20 \mathrm{~mA}$ | IS 2014 AG |  |
| $4 \ldots 20 \mathrm{~mA}$ | $4 \ldots 20 \mathrm{~mA}$ | IS 2012 AG |  |
| $0 \ldots 10 \mathrm{~V}$ | $4 \ldots 20 \mathrm{~mA}$ | IS 2054 AG |  |
| $0 \ldots 20 \mathrm{~mA}$ | $0 \ldots 10 \mathrm{~V}$ | IS 2016 AG |  |
| $4 \ldots 20 \mathrm{~mA}$ | $0 \ldots 10 \mathrm{~V}$ | IS 2036 AG |  |
| $0 \ldots 10 \mathrm{~V}$ | $0 \ldots 10 \mathrm{~V}$ | IS 2056 AG |  |
|  |  |  |  |

Dimensions


Subject to change

