



**CAMILLE BAUER**

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**SINEAX TV829**  
**Isolation up to 3600 V DC**

# High-voltage isolation amplifier

## SINEAX TV829

### Advantages

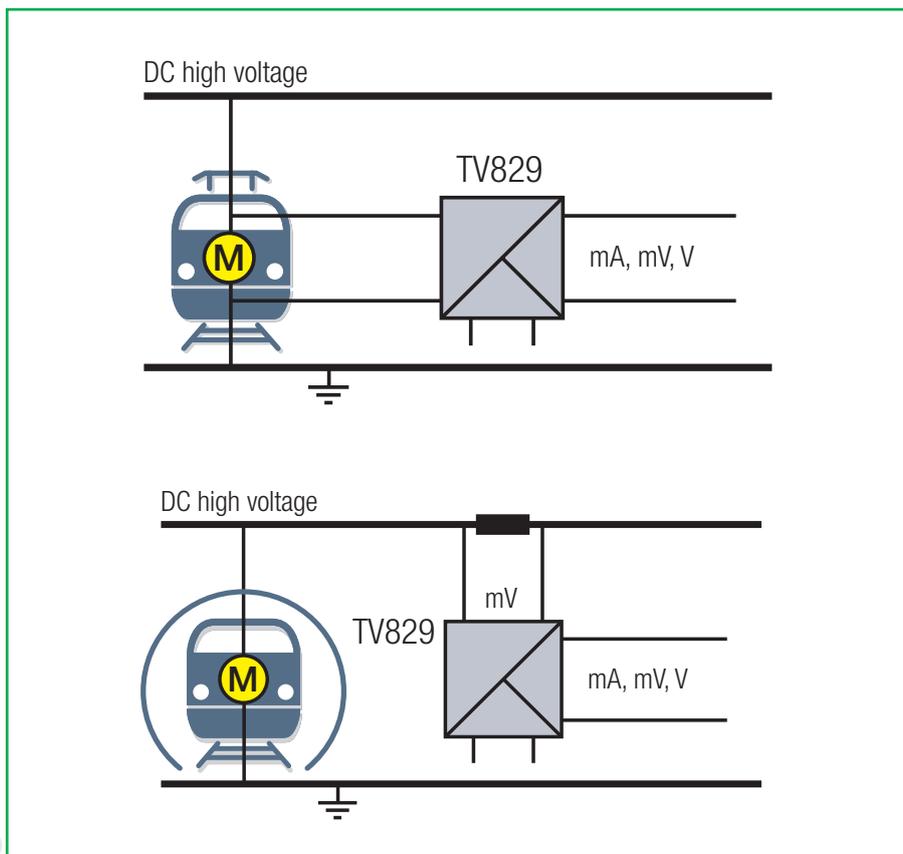
- Calibrated measuring range shift
- Wide-range power pack
- High common-mode rejection

### Application

SINEAX TV829 high-voltage isolation amplifiers isolate direct current voltages safely up to 3600 V DC. This voltage level is mainly found in railway systems so that the devices correspond to the DIN EN 50124-1 railway standard. In current measurements via a shunt, a narrow version isolated voltages up to 10 V the potential of which is on a high voltage level. Two other device versions measure high direct voltages, e.g. the voltage of catenary lines.

Typical voltage or current signals are available at the output, e.g. to control electric drive systems or to monitor catenary voltages.

A wide-range power pack permits applications in all supply systems.



### Technical data

#### Measuring input

Shunt voltage measurement

$\pm 60 \text{ mV}$ ,  $\pm 90 \text{ mV}$ ,  $\pm 150 \text{ mV}$ ,  $\pm 300 \text{ mV}$ ,  $\pm 500 \text{ mV}$ ,  $\pm 10 \text{ V}$

Voltage measurement

$\pm 400 \text{ V}$ ,  $\pm 600 \text{ V}$ ,  $\pm 800 \text{ V}$ ,  $\pm 1000 \text{ V}$ ,  $\pm 1200 \text{ V}$ ,  $\pm 1400 \text{ V}$ ,  $\pm 1880 \text{ V}$ ,  $\pm 2000 \text{ V}$ ,  $\pm 2200 \text{ V}$ ,  $\pm 3600 \text{ V}^*$

#### Measurement output

4 – 20 mA,  $\pm 20 \text{ mA}$ ,  $\pm 10 \text{ V}$

#### Power supply

20 to 253 V AC/DC

#### Test voltage

10 kV AC measuring input against measuring output  
4 kV AC measuring output against power supply

#### Operating voltage

acc. to DIN EN 61010-1  
and DIN EN 50124-1

2.2 kV AC/DC, Overvoltage Category III,  
Pollution degree 2  
between measuring input, measuring output and power supply

\*) on inquire

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