

**Introduction**

**ARCUS® T303B-3-5 kV**  
**High-Voltage** measuring amplifier  
for **outstanding results**

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**New 2021**

**ROHRER®**

power electronic  
signal processing  
customized solutions

## **ARCUS® T303B-3/5kV & Multiplexer 937-B**

(Improvements compared to T303A ... see page 2)

**±5 kV** range is used for monitoring to determine whether and how far the permissible measuring range of **±3 kV** has been exceeded.

**Especially for medium voltage installations and  
switching behavior of power contractors  
DC coupled to 500 kHz**



**Respect Safety note!**

**The unused input has to be protected to avoid high voltage shorts.**

### **further highlights**

- ◆ **Common mode rejection: >160 db-50 Hz**
- ◆ **18 Measuring ranges: from ±10 mV ... ±3 kV**
- ◆ **Additional: ±5 kV for monitoring**
- ◆ **Isolation test voltage: ±10 kV: repeating: ±8 kV**
- ◆ **Local and remote control**
- ◆ **Multichannel use with multiplexer Arcus 937-B**

Infos on page2:

**-Improvements compared to T303A**  
**-Specifications—Overview**  
**-Multichannel multiplexer Arcus 937-B**  
Specification see separate datasheet

**Improvements compared to T303A**

1. Extension of the frequency range to 600 kHz
2. Insertion of an additional 300 kHz filter
3. Frequency range selectable: 5 Hz / 3 kHz / 100 kHz / 300 kHz / Full
4. Value-Display selectable: AVG / PK / PP / MIN / MAX / RMS
5. Improvement of long-term stability
6. Wide range power supply: 90Vac to 264Vac / 47Hz to 63Hz
7. Overdrive control: ±5kV range

**Specifications—Overview**

18 measuring ranges	<b>± mV:</b> 10 / 20 / 50 / 100 / 200 / 500 <b>± V:</b> 1 / 2 / 5 / 10 / 20 / 50 / 100 / 200 / 500 <b>± kV:</b> 1 / 2 / 3 <b>± 5 kV:</b> overdrive control
Frequency ranges	DC...5 Hz / 3 kHz / 100 kHz / 300 kHz / Full (app. 600 kHz)
Display	AVG / PK / PP / MIN / MAX / RMS
Antialiasing filter	800 kHz
Common mode rejection	>160 db / 50 Hz
Recovery time from overload	< 2 μsec
Signal rise	<1 μsec
Accuracy: <b>0,1%</b> (0,2V...3kV)	50 mV: 0,1% typ. (filter: <300 kHz) 20 mV: 0,2% typ. (filter: <300 kHz) 10 mV: 0,3% typ. (filter: <300 kHz)
Isulation test voltage	±10kV /repeating: ±8kV
Operation	local / remote
Supply voltage	90 ... 264Vac; 47 ... 63Hz

**Multichannel multiplexer Arcus 937-B**  
 Specification see separate Data-sheet

