

Technical Data Sheet



U1B0A10B

> Voltage Measurement Module

Properties

- Small housing
- Measurement range ± 70 V
- Shock resistant for use in crash testing
- Low linearity error
- High bandwidth

Application

- General test and measurement
- Fatigue
- Vehicle crash

Measurement principles

- Voltage divider
- Signal processing

Options

- Alternative measurement range
- ID-Module integrated in measurement module



Technical description

The voltage measured at the input is galvanically isolated using a voltage divider and made available to a matching circuit at the output.

> Dimensions

Body: W x H x D: 48 x 45 x 25 mm

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mg · sensor
P U R E P R E C I S I O N

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Technical specification

	Unit	Value	Comment
Measuring range	V	±70	
Sensitivity ¹⁾	mV/V	35.7	
Output signal ^{1), 2)}	V	±2.5	
Input resistance	MΩ	10	
Zero signal ¹⁾	mV	≤ 12	
Amplitude non-linearity ³⁾	%	≤ 0.05	
Hysteresis ³⁾	%	≤ 0.05	
Current consumption	mA	20	
Supply voltage	V	5.0	
Galvanic isolation ⁴⁾	–	–	None
Insulation resistance	MΩ	> 100	
Connection cable:			
Appliance sockets	mm	4.0	Optional
Fixed cord	mm	9.2	
Temperature range	°C	-30...+70	
Weight (approximate)	g	60	

All values measured at 5 V sensor supply voltage and at 23 °C.

¹⁾ Typical value

²⁾ At nominal load

³⁾ Relative nominal range

⁴⁾ Input to output