

## Product Datasheet - Technical Specifications



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# ZU-DBD

## Demo Board

### Illustrative Measurement.

Voltage signals and other physical quantities (e.g. pressure, temperature, light intensity) can be presented with the demo board ZU-DBD. Equipped with various operating controls and sensors, both static and dynamic analog signals are generated.

### Connection to the DAQ System.

The demo board has been optimized for using it with the DAQ systems USB-AD14f and USB-AD from bmc m and is therefore only available with one of these DAQ systems. It is connected to the analog channels (16 AIn, 1 AOut) of the PC data acquisition system at the 37-pin D-Sub male.

### Supplied by USB. So Easy.

An external power source is not necessary. The ZU-DBD uses the power of the USB

interface provided by the PC data acquisition system with app. 5V to produce the demo signals.

### In Service for Education.

As basics of electrical engineering and measurement technology (e.g. electric circuits, functionality of electric components) can easily be demonstrated with the ZU-DBD, it is perfectly suitable to impart knowledge about PC measurement at schools and other training centers.

### Intuitive. Compact. Well-Priced.

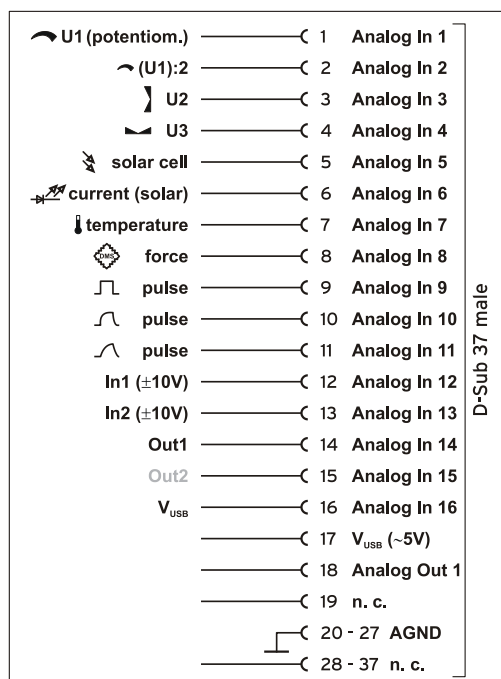
Teaching material in the field of schooling and training must be easy to use, handy, robust, and cost-effective. When developing the ZU-DBD, we set a great value on meeting these demands.

### Easily Operated.

A potentiometer for adjustable voltages, a joystick for 2-axial signals, a push-button to generate pulses, a strain gage sensor for pressure measurement - these are just a few features of the demo board to explain fundamental terms of measurement technology.

### Simply NextView®.

The data acquisition software NextView® is a perfect complement to the measurement hardware. The signals produced with the demo board can directly be visualized online as graphic curves or be recorded. A free NextView® project specially created for the ZU-DBD is provided on the bmc m website.



## Technical Data

(typ. at 20°C, after 5min., +5V supply)

Operating elements:	turning knob (potentiometer, mono, 10k $\Omega$ ), joystick (3D potentiometer, 10k $\Omega$ ), push-button
Sensors:	solar cell (monocrystalline, 39mm x 35mm, 4V/35mA), temperature sensor LM35DZ (0 .. 100°C), force/pressure sensor FSR-400 (10g .. 10kg)
LEDs	LED1: green, 2mA, powered by V <sub>+</sub> ; LED2: red, 2mA, powered by solar cell, avalanche voltage 1.6V
Signal connection:	In1 and In2 at two 4mm banana jacks each (red: $\pm 10V$ ; black: GND)
Connection to the DAQ system:	at 37-pin D-Sub male
Power supply:	app. 4 .. 5V from USB port of the PC, provided by pin 17 of the DAQ system, max. 20mA
Compatible DAQ systems:	USB-AD, USB-AD14f from bmcm
CE standards:	EN61000-6-1, EN61000-6-3, EN61010-1
ElektroG // ear registration:	RoHS and WEEE compliant // WEEE Reg.-No. DE75472248
Max. permissible potentials:	<b>60V DC acc. to VDE</b> , max. 1kV ESD on open lines
Temperature ranges:	operating temp. 0..70°C, storage temp. -25..+85°C
Relative humidity:	0-90% (not condensing)
Dimensions (L x W x H):	108mm x 105mm x 46mm
Delivery:	board in plastic holding fixture, description
Available accessories (optional):	connection cable ZUKA37SB
Software:	NextView®4 project for ZU-DBD
Warranty:	2 years from date of purchase at bmcm, claims for damages resulting from improper use excluded