

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 bmcm 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.

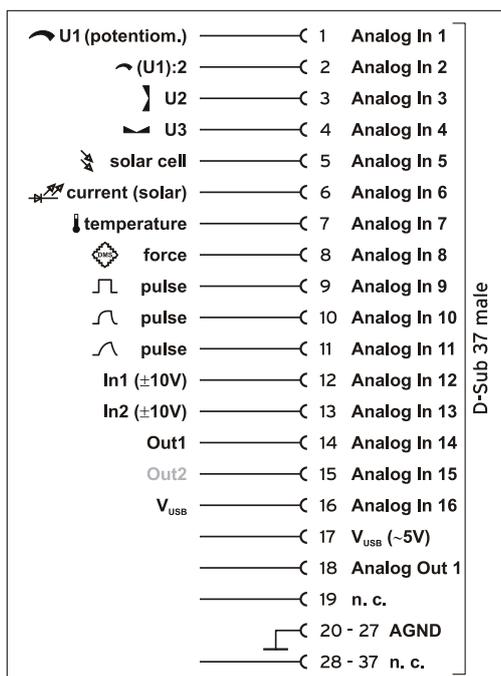
Teaching material in the field of schooling and training must be easy to use, handy, robust, and cost-effective. When developing the ZU-DBD, we set a great value on meeting these demands.

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 bmcm website.



Technical Data

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

Operating elements:	turning knob (potentiometer, mono, 10k Ω), joystick (3D potentiometer, 10k Ω), 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 _s ; 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:	60V DC acc. to VDE , 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