

# USB Devices with 16 bit Resolution

- Simple USB connection to your computer
- 16 isolated DAQP or 32 differential MDAQ analog inputs
- 16 bit resolution
- Sync option for channel expansion (some models)
- Various power supply options



**Choose from four models**

Add your choice of signal conditioning and software to complete these systems



	DEWE-50-USB2-16	DEWE-51-USB2-32
Slots for DAQ or PAD modules	16	-
MDAQ input channels	-	Up to 32
External quasi-static channel expansion	EPAD interface, up to 16 EPAD2 modules = 128 ch	
<b>A/D conversion</b>		
Sampling method	Multiplexed sampling	
Resolution	16 bit	
Sampling rate	500 kS/s aggregate 31.25 kS/s per channel	500 kS/s aggregate 15.625 kS/s per channel
<b>Counter and digital inputs</b>		
Counters / digital inputs	Optional	
<b>CAN bus</b>		
High-speed CAN bus interfaces	-	
<b>Power supply</b>		
Power supply (max.)	85 to 264 V <sub>AC</sub>	
<b>Main system</b>		
Host PC interface	USB 2	
Supported operating systems	Microsoft® WINDOWS® XP	
Dimensions (W x D x H)	435 x 245 x 133 mm (17.1 x 9.6 x 5.2 in.)	
Weight	Typ. 5.5 kg (12 lbs)	
<b>Environmental specifications</b>		
Operating temperature	0 to +50 °C	
Storage temperature	-20 to +70 °C	
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity	
Vibration	EN 60068-2-6, EN 60721-3-2 class 2M2	
Shock	EN 60068-2-27	

All DEWE-50-USB2-16-x are prepared for installation of up to 16 high performance DAQP signal conditioning modules. These models offer maximum flexibility as DAQP modules can be added or exchanged at any time by the user. One model offers positions for cost-effective and space saving MDAQ blocks for differential inputs. It can be equipped with up to 32 analog inputs. Only software and DAQP series modules are needed to complete any of these systems.



Carrying handle



DEWE-50-DC option for DC power supply



USB interface with hot plug-and-play capabilities



16 BNCs on the rear for conditioned signal output



19" rack mount kit

## Most Popular System Options

	DEWE-50-USB2-16	DEWE-51-USB2-32
<b>50-HANDLE</b> Carrying handle for DEWE-50 series	✓	✓
<b>50-16-DC-UPS</b> DC power supply 10 to 32 V with internal UPS battery ~3 min. and external AC adaptor	✓	✓
<b>50-16-DC</b> DC power supply 9 to 36 V	✓	-
<b>50-32-DC</b> DC power supply 9 to 36 V	-	✓
<b>DEWE-POW-24-350</b> External power supply for 50-xx-DC option, 95 to 260 V <sub>AC</sub> Input, 24 V <sub>DC</sub> output	✓	✓
<b>50-16-OUT-5</b> 16 BNC connectors on back panel, ±5 V output of DAQx modules	✓	-
<b>50-16-OUT-10</b> 16 BNC connectors on back panel, ±10 V output of DAQx modules	✓	-
<b>51-USB2-32-OUT-5</b> 32 BNC connectors on back panel, ±5 V output of MDAQ-SUB-x modules	-	✓
<b>51-USB2-32-OUT-10</b> 32 BNC connectors on back panel, ±10 V output of MDAQ-SUB-x modules	-	✓
<b>50-USB2-SYNC</b> connector for synchronizing two DEWE-50-USB2 units (one counter is used for SYNC)	✓	✓
<b>50-USB2-DIO-PANEL-1</b> Adds 5 isolated counter / encoder inputs and up to 16 digital inputs (TTL level), plus connector for synchronizing two DEWE-50-USB2 units (one counter is used for SYNC)	✓	✓
<b>50-16-MK</b> 19" rack-mount-kit, 3 U	✓	✓

### Expandability

The 50-USB-SYNC option enables you to cascade several units to increase the total channel count. One counter is used for the synchronization and the total sampling rate decreases to 250 kS/s aggregate per chassis if two units are connected. For creating a multi chassis system USB and SYNC connection between the different devices are needed.



Cascading of three DEWE-50-USB2-16 to get a total of 48 dynamic channels