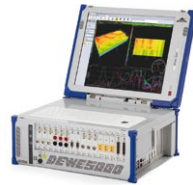
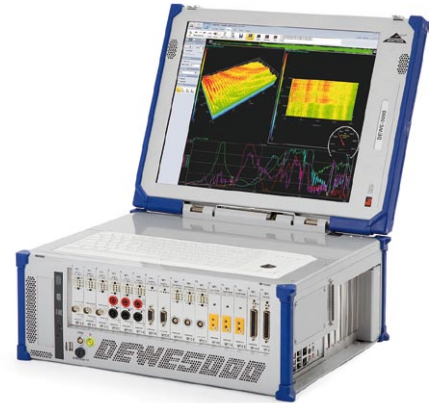


DEWE-5000

- High-end benchtop all-in-one instrument
- 16 isolated DAQP or 32 differential MDAQ analog inputs
- Flexible sidepanel for counters, sensor supply ...
- Up to 5 PCI slots for A/D and other cards (1394, ARINC, 1553...)
- Brilliant 17" TFT display



Choose from two models

Add your choice of signal conditioning, A/D board(s) and software to complete these systems

DEWE-5000 series		
Input specifications	DEWE-5000	DEWE-5001
Slots for DAQ or PAD modules	16	-
MDAQ input channels	-	Up to 32
Main system ¹⁾		
Total PCI slots	5	5
Hard disk	1000 GB	
Data throughput	Typ. 70 MB/s ²⁾	
Power supply	95 to 260 V _{AC}	
Display	17" TFT display, 1280 x 1024 pixel	
Processor	Intel® Core™2 Duo 2 GHz	
RAM	2 GB	
Ethernet	10/100/1000 BaseT	
USB interfaces	4	
RS-232 interface	1	
Storage drive	Internal DVD +/-RW burner	
Operating system	Microsoft® WINDOWS® 7	
Dimensions (W x D x H)	460 x 351 x 192 mm (18.1 x 13.8 x 7.7 in.)	
Weight	Typ. 17 kg (37 lb.)	Typ. 16.5 kg (36 lb.)
Environmental specifications		
Operating temperature	0 to +50 °C, down to -20 °C with prewarmed unit	
Storage temperature	-20 to +70 °C	
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity	
Vibration ³⁾	MIL-STD 810F 514.5, procedure I	
Shock ³⁾	MIL-STD 810F 516.5, procedure I	

¹⁾ Please find current specifications in the latest price list
²⁾ Depends on the system configuration. Examples:
 • DEWE-5000 with 4x DEWE-ORION-1624-200 and 1x DEWE-CAM01 = 72 MB/s
 • DEWE-5000 with 2x DEWE-ORION-1624 + 4x DEWE-CAM01 = 60 MB/s
³⁾ Tested with Solid State Disk

Additional interfaces and sensors

Measurements are not limited to just classic analog and digital signals. Please find further detailed information to expand your system in the chapter "Components".

Needed to complete the system

DEWE-ORION "A/D Boards" offer simultaneous sampled analog inputs, synchronous digital I/Os, high-performance counters and high-speed CAN interfaces. DAQP- or MDAQ signal amplifiers and software are needed as well.

Options to expand the system

Add further "Interface Cards" like ARINC-429, 1553, PCM telemetry, FireWire and analog output or special "Sensors" like synchronized Video, industrial encoders (RIE-360) or GPS.



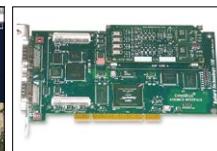
A/D card



DAQP/MDAQ



DEWESoft



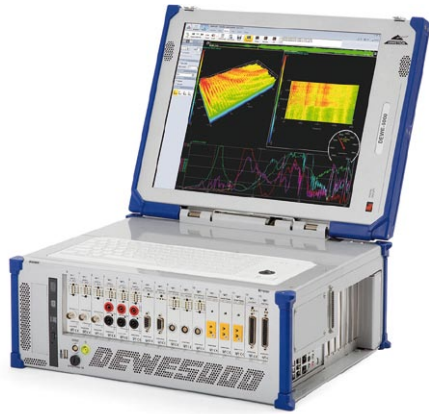
ARINC



VIDEO



VGPS



DEWE-5000

DEWE-5000

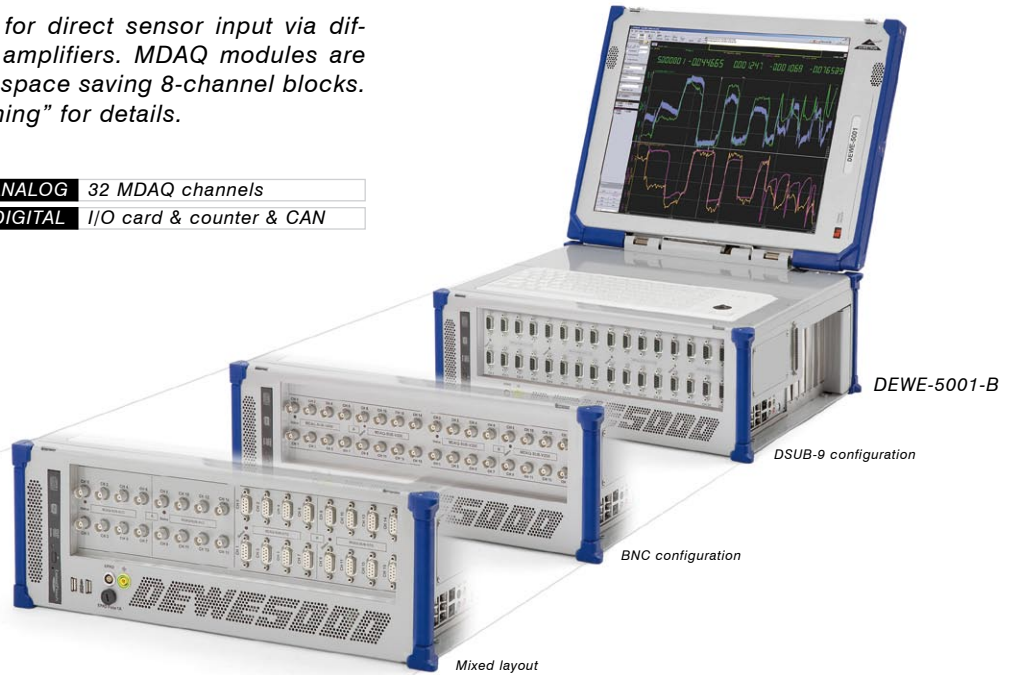
Most flexible model, prepared for DAQP **isolated** analog input amplifier modules. DAQP conditioners offer highest bandwidth, great accuracy, different input ranges and integrated filters. Besides the single channel modularity – a module easily can be changed by the user at any time – the main advantage of these modules is the high galvanic isolation which ensures safe measurements, high quality results and make them almost indestructible. See chapter “Signal Conditioning” for details.

Max. channel count	ANALOG	16 DAQ modules
	DIGITAL	I/O card & counter & CAN

DEWE-5001

High channel count version, for direct sensor input via differential MDAQ analog input amplifiers. MDAQ modules are available in cost efficient and space saving 8-channel blocks. See chapter “Signal Conditioning” for details.

Max. channel count	ANALOG	32 MDAQ channels
	DIGITAL	I/O card & counter & CAN

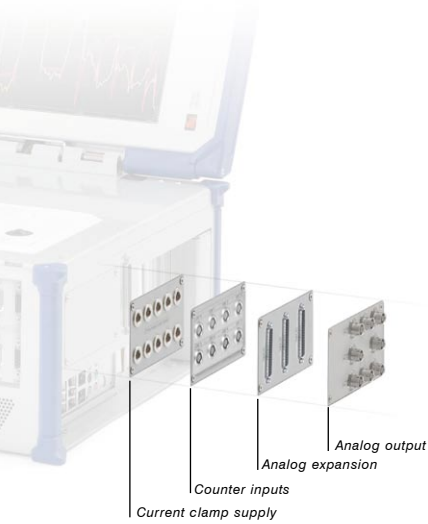


DEWE-5001-B

DSUB-9 configuration

BNC configuration

Mixed layout



Flexible side panel

The DEWE-5000 series instruments offer a flexible side panel prepared for adding additional connectors.

The most popular use of this panel is adding Lemo sockets for counter / encoder inputs. However, there are many different versions like multiple Binder 712 power supply connectors for current transducers, BNC sockets for analog outputs, multi-pin Sub-d sockets for additional analog inputs ...

Due to the high number of available PCI slots the connection of additional interfaces like CAN bus, ARINC-429, Firewire-1394 etc. is done directly via the slot panel.

- Side panel with 10 connectors for powering current transducers
- 2 CAN interfaces on slot panel
- 2 FireWire interfaces on slot panel

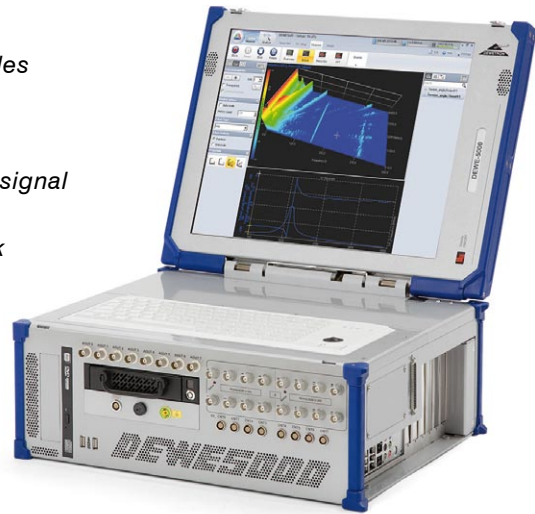


DEWE-5000 side view

Example Configurations

Customized multi-purpose DEWE-5001

- 16 voltage/IEPE inputs via MDAQ modules
- 8 advanced counter/encoder interfaces
- 8 analog outputs for data replay
- EPAD interface for external quasi-static signal conditioning modules
- Removable hard disk for classified work



DEWE-5001 with internal function generator

- 16 analog inputs via MDAQ modules
- Function generator with 8 outputs and integrated watchdog
1 MS/s output rate
0.1 mHz frequency resolution



DEWE-5000 with 16 isolated DAQP modules installed

2 EPAD2-TH8-K modules added for 16 thermocouple inputs

System options and upgrades for DEWE-5000 series	
Options	Description
FIREWIRE-1394	PCI FireWire IEEE-1394 interface for the DEWE-5000
5000-DC-12V	Power supply 9 to 18 V _{DC} (no internal battery), Lemo EGJ.3B.302 for DC input, incl. external AC adaptor
5000-DC-24V	Power supply 18 to 36 V _{DC} (no internal battery), Lemo EGJ.3B.302 for DC input, incl. external AC adaptor
Upgrades	Description
RAM-2048-3072	Upgrade from 2 GB to 3 GB RAM (total)
HDD-1000-SSD-128	Upgrade to 128 GB flash disk (replaces 1000 GB hard disk), max. data throughput 40 MB/s

Popular Accessories



Internal 128 GB Solid State Disk for maximum reliability



Accessory: 5000-CSMK1



Option 5000-DC-12V Internal 9 .. 18 V_{DC} power supply including external AC adaptor.



The carrying bag is included as standard accessory

Channel Expansion

Signal conditioning for slow signals is added by connecting EPAD2 series modules to the systems EPAD interface.

For expanding the number of dynamic channels there are three choices:

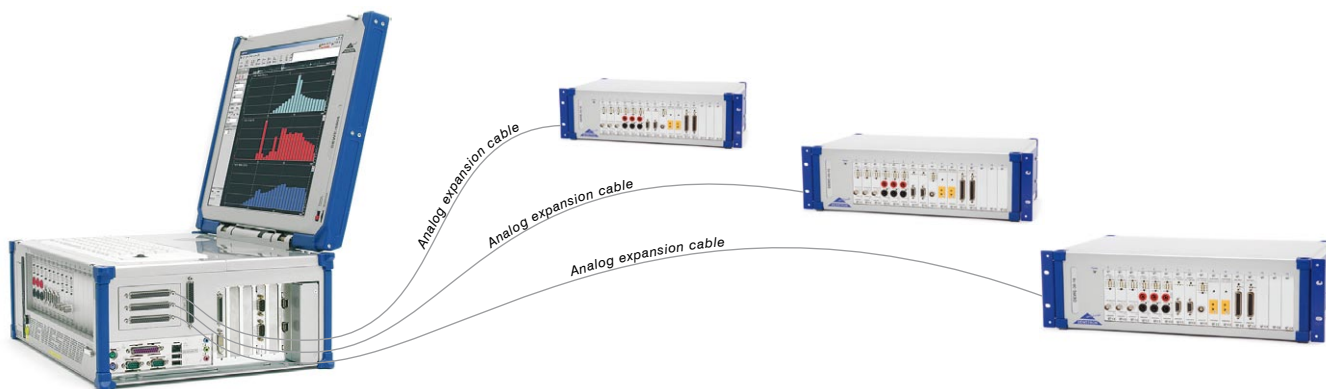
Analog cable: Additional A/D boards are installed into the basic instrument and external signal conditioning, e.g. DAQ modules in a DEWE-30 chassis, is connected by means of an analog signal cable.

PCI expansion: A PCI-HOST card is installed into the basic instrument and external signal conditioning, e.g. DAQ modules in a DEWE-50 chassis, is connected by means of a PCI cable.

DEWE-NET: Several instruments are connected via Ethernet. Each unit requires an ORION-SYNC option. For short distances a sync cable is used if the units are far from each other a sync interface like IRIG-CLOCK or GPS-CLOCK is used.

Example

Analog expansion standard 2 m | optional up to 50 meter



DEWE-5000 with DEWE-30-16 signal conditioning chassis; DAQP modules for voltage, ICP®, bridge, strain ... measurement