# DEWE-800

- ■ *Test stand and laboratory instrument*
- ■ *Isolated DAQP and differential MDAQ analog input versions*
- ■ *Up to 6 PCI slots for A/D and other cards (1394, analog output…)*
- ■ *Well suited for distributed network acquisition systems*
- ■ *Safe investment, easy future upgrade*

**Choose from two models**

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

| DEWE-800 series | | | |
|---|---|---|---|
| **Input specifications** | **DEWE-800** | **DEWE-820** | **DEWE-801** |
| Slots for DAQ or PAD modules | 16 | 16 (on rear) | - |
| MDAQ input channels | - | - | Up to 64 |
| **Main system** [1] | | | |
| Total PCI-slots | 2 full / 1 half length opt. 2 full / 4 half length | 2 full / 1 half length opt. 2 full / 4 half length | 1 full / 2 half length opt. 1 full / 5 half length |
| Hard disk | 1 TB | | |
| Data throughput | Typ. 70 MB/s [2] | | |
| Power supply (max.) | 90 to 264 $V_{AC}$ | | |
| Processor | Intel® Core™ i5 | | |
| RAM | 3 GB | | |
| Ethernet | 10/100/1000 BaseT | | |
| USB interfaces | 4 | | |
| RS-232 interface | 1 | | |
| Operating system | Microsoft® WINDOWS® 7 | | |
| Dimensions | 437 x 443 x 181 mm (17.2 x 17.4 x 7.1 in.) | | |
| Weight | Typ. 12.5 kg (27.5 lb.) | Typ. 12.5 kg (27.5 lb.) | Typ. 12 kg (26.4 lb.) |
| **Environmental specifications** | | | |
| Operating temperature | 0 to +40 °C | | |
| Storage temperature | -20 to +70 °C | | |
| Humidity | 10 to 80 % non cond., 5 to 95 % rel. humidity | | |
| Vibration [3] | EN 60068-2-6, EN 60721-3-2 class 2M2 | | |
| Shock [3] | EN 60068-2-27 | | |

[1] Please find current specifications in the latest price list
[2] Depends on the system configuration
[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.*
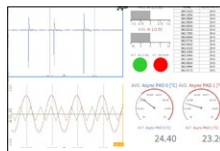
### Options to expand the system

*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.*
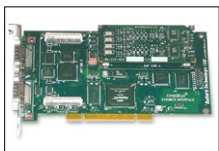
| A/D card | DAQP/MDAQ | Software | ARINC | VIDEO | VGPS |
|---|---|---|---|---|---|

NEW
DEWE2
Dedicated Instruments
Instruments
Front-ends
Signal Conditioning
Components
Software

*Test & Measurement Solutions*

*DEWE-800*


*DEWE-820*


*DEWE-801-B1*


*DEWE-801-B2*

## DEWE-800

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.

## DEWE-820

Same as DEWE-800, but for convenient connection of signal inside a 19" cabinet the DAQP conditioners are installed on the back side.

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

## DEWE-801

There are two versions, DEWE-801-B1 and DEWE-801-B2. Both are for 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 | 64 MDAQ channels |
|---|---|---|
| | DIGITAL | I/O card & counter & CAN |

DEWE-801-B1 has a fixed front panel and is prepared for up to 8 MDAQ-SUB-x-BNC modules.

DEWE-801-B2 has a fixed front panel and is prepared for up to 4 MDAQ-SUB-x-D modules.

| System options and upgrades for DEWE-800 series | |
|---|---|
| **Options** | **Description** |
| 800-MK | 19" mounting kit for the DEWE-800 series, 4U |
| 800-DC-12V | Power supply 9 to 18 $V_{DC}$ (no internal battery), max. output 300 W, Lemo EGJ.3B.302 for DC input, incl. external AC adaptor |
| 800-DC-24V | Power supply 18 to 36 $V_{DC}$ (no internal battery), max. output 300 W, Lemo EGJ.2B.302 for DC input, incl. external AC adaptor |
| **Upgrades** | **Description** |
| 800-CPU-UP-i7 | Upgrade of PC for DEWE-800 series consisting of mainboard with 4 PCI slots Intel® Core™ i7 processor 2.8 GHz and 4 GB RAM |
| BAY-5.25-SATA | 5.25" SATA removable drive bay, standard height 43.2 mm / 1.70 in., no hard disk included, max. one drive bay per unit |
| HDD-3.5-SATA-1000 | 1000 GB SATA harddisk 3.5", for installation into a 5.25" removable drive bay |
| HDD-INT-MINUS | Remove the internal fixed hard disk |

## 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 DEWE-CLOCK is used.