

# DEWE-901

- Rack-mount instrument
- Up to 64 differential MDAQ analog inputs
- Up to 6 PCI slots for A/D and other cards (PCM, ARINC, 1553...)
- 3 removable hard drives
- Safe investment, easy future upgrade



Standard Models

Instruments

For Your Computer

Signal Conditioning

Components

DEWE-901	
<b>Input specifications</b>	
MDAQ input channels	Up to 64
<b>Main system <sup>1)</sup></b>	
Total PCI-slots	5 full length
Hard disk	One removable 250 GB hard disk on backside two removable 500 GB hard disks on front
Data throughput	Typ. 70 MB/s <sup>2)</sup>
Power supply	95 to 260 V <sub>AC</sub>
Display	19" TFT display, 1280 x 1024 pixels
Processor	Intel® Core™2 Quad 2 GHz
RAM	3 GB
Ethernet	10/100/1000 BaseT
USB interfaces	4
RS-232 interface	-
Operating system	Microsoft® WINDOWS® 7
Dimensions (W x D x H)	483 x 503 x 444 mm (19 x 19.8 x 17.4 in.)
Weight	Typ. 25 kg (55 lb.)
<b>Environmental specifications</b>	
Operating temperature	0 to +50 °C
Storage temperature	-20 to +60 °C
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity
Vibration <sup>3)</sup>	EN 60068-2-6, EN 60721-3-2 class 2M2
Shock <sup>3)</sup>	EN 60068-2-27
<small><sup>1)</sup> Please find current specifications in latest price list</small>	
<small><sup>2)</sup> Data throughput depends on system configuration</small>	
<small><sup>3)</sup> Tested with Solid State Disk</small>	

## 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.



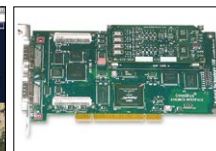
A/D card



DAQP/MDAQ



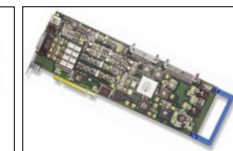
DEWESoft



ARINC



VIDEO



PCM telemetry card



DEWE-901-B1

**DEWE-901**

There are two versions, **DEWE-901-B1** and **DEWE-901-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.

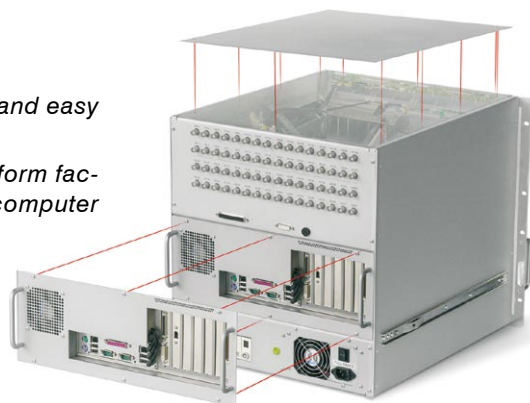
Max. channel count	<b>ANALOG</b>	16 DAQ modules
	<b>DIGITAL</b>	I/O card & counter & CAN

**Safe investment, easy future upgrade**

The DEWE-900 chassis is designed in a modular way to enable quick and easy access to all major components.

The computer part of this unit is based on standard components and form factors; e.g. ATX style motherboard. It is even possible to pull the whole computer compartment out for absolute accessibility.

Thus cost effective computer upgrades to take advantage of the fast development in that area are possible over many years.



**All removable hard drives**

In the DEWE-901, there are three S-ATA removable hard drives - NO internal hard drives! There are two on the front panel for data, and one on the rear panel for the operating system and applications.

**Options and upgrades**

System options and upgrades for DEWE-900 series	
Options	Description
FIREWIRE-1394	PCI FireWire interface for the DEWE-900
900-DC-12V	Power supply 9 to 18 V <sub>DC</sub> (no internal battery), max. output 300 W, Lemo EGJ.3B.302 for DC input, incl. external AC adaptor
900-DC-24V	Power supply 18 to 36 V <sub>DC</sub> (no internal battery), max. output 300 W, Lemo EGJ.2B.302 for DC input, incl. external AC adaptor
Upgrades	Description
HDD-500-1000	Upgrade of one removable data hard disk to 1 TB (replaces 500 GB hard disk)
HDD-REM-1000	Spare removable hard disk, 1 TB in drawer

**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.

