

# DEWE-1201

- Smallest all-in-one instrument
- Wide range DC input and optional battery pack
- 16 differential MDAQ analog inputs
- Solid state disk for extreme ruggedness
- 13" wide screen TFT display



DEWE-1201	
<b>Input specifications</b>	
MDAQ input channels	16
Expansion connector for additional 16 channels	Optional, if DEWE-ORION-32xx card is installed
<b>Main system <sup>1)</sup></b>	
Total PCI slots	1 half length
Hard disk	32 GB SSD
Data throughput	Typ. 40 MB/s <sup>2)</sup>
Power supply	8 to 30 V <sub>DC</sub> , external AC power supply adapter included
Display	13" TFT display, 1280 x 800 pixel
Processor	Intel® Core™2 Duo, 2 GHz
RAM	2 GB
Ethernet	2x 10/100/1000 BaseT
Wireless LAN	1 antenna, 802.11n standard
USB interfaces	4
FireWire® interface	1
Operating system	Microsoft® WINDOWS® 7
Dimensions (W x D x H)	317 x 252 x 110 mm (12.5 x 9.9 x 4.3 in.)
Weight	Typ. 5.5 kg (12.1 lbs)
<b>Environmental specifications</b>	
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	EN 60068-2-6, EN 60721-3-2 class 2M2
Shock	EN 60068-2-27
<sup>1)</sup> Please find current specifications in the latest price list	
<sup>2)</sup> Depends on the system configuration	

## 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



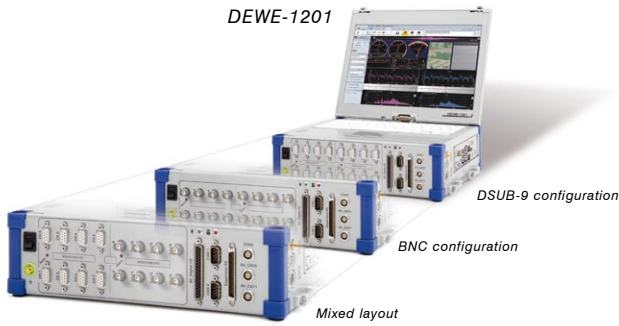
DEWE-30



VIDEO



VGPS



**DEWE-1201**

Version 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	16 MDAQ channels
	DIGITAL	I/O card & counter & CAN

**System options and upgrades for DEWE-1201 series**

Options	Description
1201-REMOTE-ON	Change power supply configuration to remote-on mode, useful for in-car applications to start the DEWE-1201 when the ignition of the car is turned on, incl. cable 2 m terminated with 3 banana plugs, in this mode there is a general power-on delay of approx. 8 seconds
DEWE-UPS-150-DC	External 130 W UPS and multi-battery charger with 9 .. 36 V <sub>DC</sub> input range for powering systems with wide range DC input, output of DEWE-UPS-150-DC is 12 .. 16 V <sub>DC</sub> when running from batteries and 24 V <sub>DC</sub> when powered from DC, 2 slots for BAT-95WH batteries, 2 batteries included, mechanically compatible with DEWE-1201, REMOTE-ON option is not available when DEWE-UPS-150-DC is connected to DEWE-1201
Upgrades	Description
RAM-2048-3072	Upgrade from 2 GB to 3 GB RAM (total)
SSD-32-128	Upgrade of 32 GB flash disk to 128 GB flash disk

**DEWE-1201 with battery pack**

The optional battery pack DEWE-UPS-150-DC turns the DEWE-1201 into a fully battery powered instrument. The hot-swappable batteries guarantee continuous operation without an external power source. The instrument can be operated for up to 2 hours with 2 batteries (BAT-95HW) installed. Since this time depends a lot on the system configuration a DEWESoft plugin shows the battery status directly in the software. Also alarm conditions can be set and the battery parameters can be displayed as additional measurement channels.



**Channel Expansion**

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

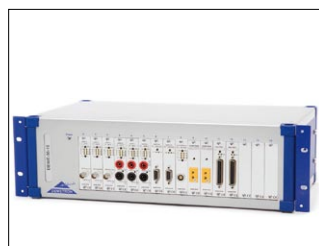
For expanding the number of dynamic channels there are two choices:

**Analog cable:** A 32ch ORION series A/D card is installed into the DEWE-1201 and external signal conditioning, e.g. DAQ modules in a DEWE-30 chassis, is connected by means of an analog signal cable.

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



DEWE-31-16



DEWE-30-16



DEWE-POWERBOX-10  
DC Power distribution box



Interfaces