

DEWE-3300

- Most portable all-in-one instrument
- 16 isolated DAQP analog inputs
- 2 PCI slots for A/D cards
- 15.6" TFT multi-touch screen



DEWE-3300	
Input specifications	DEWE-3300
Slots for DAQ/HSI/PAD modules	16
Quasi-static channel expansion 12 Hz	EPAD2 interface
Main system ¹⁾	
Total PCI slots	2 half length
Hard disk	1 TB HDD dedicated for data storage (upgrade to 1 TB SSD available) 120 GB SSD for operating system and application software, both in a single removable drive bay
Data throughput	Typ. 80 MB/s
Power supply (max.)	95 to 260 V _{AC}
Display	15.6" TFT wide-screen with multitouch-screen (1920 x 1080)
Processor	Intel® Core™ i5
RAM	8 GB
Ethernet	2x 1 Gbit LAN
USB interfaces	6
Operating system	64 bit Microsoft® WINDOWS® 7
Dimensions (W x D x H)	462 x 320 x 135 mm (18.2 x 12.6 x 5.3 in.)
Weight	Typ. 8.2 kg (18 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
Max. Altitude	2000 m (6560 ft)
Sine vibration (EN 60068-2-6) ²⁾	Acceleration 20 m/s ² , Freq. 10 Hz - 150 Hz, Sweep 1 oct/min, 20 cycles
Shock (EN 60028-2-27) ²⁾	Acceleration 15 g, duration 11ms, pulse form half sine, 3 pumps/direction, 6 directions
Random vibration (EN 60721-3-2) ²⁾	Class 2M2 (spectral acceleration density 1 m ² /s ³ , frequency range 10 Hz-200 Hz, duration 30 min/direction)
¹⁾ Please find current specifications in the latest price list	
²⁾ Tested with Solid State Disk	

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 signal amplifiers and software are needed as well.

Options to expand the system

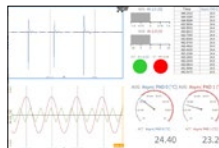
Add further "Interface Cards" like ARINC-429, 1553, and analog output or special "Sensors" like synchronized video, industrial encoders (RIE-360) or GPS.



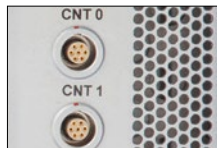
A/D card



DAQP



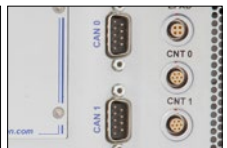
Software



CNT2-LEMO



VIDEO



CAN

DEWE-3300

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.



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



Counters, option ORION-CNT2-LEMO

The two counters of the DEWE-ORION-series A/D-card are wired to female 7-pin LEMO sockets for direct connection of encoders or any other counter channel sources.

1x 1.5 u panel space available for DIO panels in systems with DC power option

Depending on the application, the DEWE-3300 offers various DIO panels. For encoder measurements the ORION-DIO-PANEL-1 is the right choice since it offers eight counters wired to 7-pin LEMO connectors. The ORION-DIO-PANEL-2 has been designed for applications where many TTL-inputs are required. For galvanically isolated digital inputs the ORION-DIO-PANEL-3 would be the right choice.

0.5 u panel space available for DIO panels

Choose between a panel with 8 additional counter inputs or a power supply for 4 current clamps.

0.5U-ORION-CNT8-LEMO



0.5U-CLAMP-DC-POWER-4



ORION-DIO-PANEL-1



ORION-DIO-PANEL-2

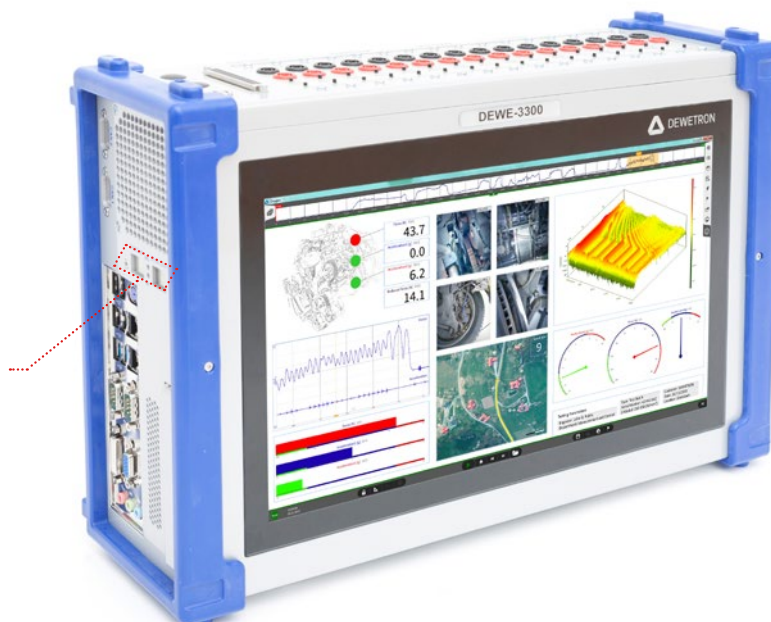


MPAD-TH16-K



System options and upgrades for DEWE-3300	
Options for counters and digital inputs	
ORION-CNT2-LEMO	Installation of 2 Lemo sockets EGG.1B.307.CLL for the 2 counters of an ORION base card into a DEWETRON instrument, incl. mating connectors
ORION-DIO-PANEL-1	„Installation of 8 Lemo sockets EGG.1B.307.CLL for up to 8 counters and 1 D-SUB-37 connector for up to 16 digital inputs into a DEWETRON instrument
ORION-DIO-PANEL-2	„Installation of 2 Lemo sockets EGG.1B.307.CLL for up to 2 counters and 2 D-SUB-37 connectors for up to 32 digital inputs into a DEWETRON instrument
ORION-DIO-PANEL-3	„Installation of 2-Lemo connectors EGG.1B.307.CLL for 2 counters (not isolated) and 2 D-SUB-37 connectors for up to 32 isolated digital inputs (or up to 6 counters) into a Dewetron instrument
Upgrades	
RAM-8GB-16GB	Upgrade from 8 GB to 16 GB RAM (total)
HDD-1T-SSD-500G	Upgrade to industrial grade 256 GB solid state disk (replaces 1 TB harddisk)
HDD-1T-SSD-1T	Upgrade to 1 TB flash disk (replaces 1 TB data harddisk)
Accessories	
3300-BAG	Carrying bag for DEWE-3300

ORION Sync option
Synchronization with
PC based instruments



DEWE-POWERBOX-11
DC Power distribution box



15.6" multi-touch-screen



A carrying bag is available



Removable drive bay

Channel Expansion

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



EPAD2-TH8



EPAD2-TH8

For expanding the number of dynamic channels there are some 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.



DEWE-3300

ANALOG



DEWE-30-16

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.



DEWE-3300

ETHERNET



DEWE-3300