

DEWE-571

- Rugged all-in-one instrument
- Battery powered
- 16 differential MDAQ analog inputs
- Solid state disk for extreme ruggedness
- 12" wide screen TFT display with touch-screen



DEWE-571	
Input specifications	DEWE-571
MDAQ input channels	16
Main system ¹⁾	
Total PCI-slots	1 half length
Hard disk	120 GB SSD
Data throughput	Typ. 90 MB/s ²⁾
Power supply	Battery powered, 18 to 24 V _{DC} input 2 battery slots ³⁾ , 2 batteries for ~2 hrs. operation incl., External AC power supply 95 to 260 V _{AC} included External DC power supply 9 to 36 V _{DC} optional
Display	12" TFT touchscreen (1280 x 800)
Processor	Intel® Core™ i5
RAM	4 GB
Ethernet	10/100/1000 BaseT
USB interfaces	2
RS-232 interface	1
Operating system	Microsoft® WINDOWS® 7
Dimensions (W x D x H)	360 x 300 x 150 mm (14.2 x 11.8 x 5.9 in.)
Weight without batteries	Typ. 5 kg (11 lb.)
Environmental specifications	
Operating temperature when discharging batteries when charging batteries	0 to +50 °C 0 to +45 °C
Storage temperature	-20 to +60 °C
Humidity	10 to 90 % non cond., 5 to 95 % rel. humidity
Vibration	EN 60068-2-6, EN 60721-3-2 class 2M2
Shock	EN 60068-2-27
¹⁾ Please find current specifications in latest price list	
²⁾ The data throughput depends on the system configuration	
³⁾ Weight of one battery: 660 g (1.45 lb.)	

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

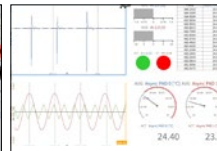
DEWE-ORION "A/D Boards" offer simultaneous sampled analog inputs, synchronous digital I/Os, high-performance counters and high-speed CAN interfaces. DAQP- or MDAQ signal amplifiers and software are needed as well.



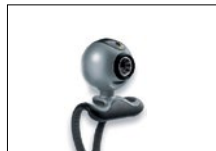
A/D card



DAQP/MDAQ



Software



Webcam



Trigger probe



RIE encoder sensor

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.



DEWE-571

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-571 series	
Options	Description
DEWE-DCDC-24-300-ISO	External DC/DC converter with isolation, 9 to 36 V _{DC} input range, Lemo EGJ.3B.302, incl. 2 m cable to banana jacks, 24 V _{DC} output, 300 W, Lemo EGG.2B.302 socket
BAT-95-WH	Lithium-Ion battery, 14.4 V, 95 Wh, max. 8 A
BAT-CHARGER-1	Desktop battery charger for 1 battery, incl. external AC adaptor
BAT-CHARGER-4	Desktop battery charger for 4 batteries, incl. external AC adaptor
Upgrades	Description
SSD-120-240	Upgrade of 120 GB flash disk to 240 GB flash disk
SSD-120-480	Upgrade of 120 GB flash disk to 480 GB flash disk



Battery power

The DEWE-571 is a fully battery powered instrument. The hot-swappable batteries guarantee continuous operation without an external power source. The instrument provides 2 slots for BAT-95WH batteries and can be operated for up to ~2 hours with 2 batteries installed. Since this time depends a lot on the system configuration the battery status is shown 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 simply added by connecting EPAD2 series modules to the systems standard EPAD interface. Dynamic channels are limited to 16.



DEWE-DCDC-24-300-ISO
Isolated DC power supply



DEWE-571 rear view



Battery charger for battery powered instruments



Hot-swappable batteries