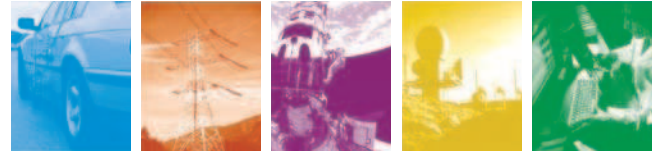


Automotive
Energy & Power Analysis
Field service
Environmental
Research & Development



BATTERY POWERED INSTRUMENTS

Battery Powered Instruments

The DEWE-501, DEWE-2520, DEWE-570 and DA-121 are the first fully battery powered high-speed data acquisition systems.

The hot-swappable batteries and SideHand™ power system guarantee continuous operation without a power source.

The DEWE-501 Stream-Box has additional features for the new automotive measurement requirements: Extremely small footprint for more than 100 analog channels for ICP® type vibration sensors or microphones, strain-gages or any type of sensors with voltage output and excitation.

Key Features:

- Hot-swappable batteries for continuous operation without a power source
- Up to 64 simultaneous sensor inputs
- Up to 20 synchronous digital inputs
- Up to 20 synchronous counters / encoders
- Up to 4 synchronous CAN-bus interfaces
- Video camera interface
- Direct streaming to disk
- MIL-STD ruggedness
- Light weight and small housings
- Instruments cascable

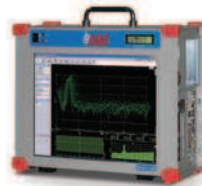
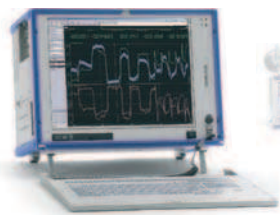
Online Information:

www.dewetron.info/battery

...the precision signal conditioning company



Overview



under development

	DEWE-2520 Series	DEWE-501 / DEWE-510 Series	DA-120 Series	DEWE-570-PNA
DAQ / PAD amplifier slots	16	up to 16	up to 4	-
MDAQ amplifier input channels	up to 64	up to 64	up to 80	-
Internal conditioned channels	-	-	-	8
Combined DAQ / PAD slots and MDAQ input channels	16 DAQ / PAD, up to 32 MDAQ	-	-	-
Total PCI slots				
for DAQ amplifier usage	4	-	2	-
for MDAQ amplifier usage	7	2	2	-
with internal channels	-	-	-	1
Channel expansion	Analog, PCI, USB, Firewire®	Analog, PCI, USB, Firewire®	Analog, PCI, USB, Firewire®	-
Serial inputs for optional EPAD modules	32 EPAD modules (= 256 channels)	32 EPAD modules (= 256 channels)	32 EPAD modules (= 256 channels)	-
GPS sensor	1	1	1	1
Data throughput				
Standard system ¹⁾	30 to 45 MB/s	12 to 18 MB/s	17 MB/s	12 to 18 MB/s
with STREAM option	> 50 MB/s	-	> 50 MB/s	-
Hard disk ²⁾				
Standard system	250 GB	30 GB / 250 GB	100 GB	30 GB
Typ. duration of recording (16 ch. / 10 kS/s/ch.)	4 days	0.5 days	1.6 days	0.5 days
Main system ²⁾				
CPU board	SBC	SBC	Mini-ITX	SBC
Display	15" TFT (1024 x 768)	external (option)	15" TFT (1024 x 768)	10.4" TFT (1024 x 768)
Processor	Intel® Pentium® M	Intel® Pentium® M	Intel® Core™ Duo	Intel® Pentium® M
Dimensions				
Dimensions (W x D x H)	409 x 240 x 291 mm (16.1 x 9.4 x 11.5 in.)	439 x 188 x 181 mm ³⁾ (17.3 x 7.4 x 7.1 in.)	407 x 318 x 140 mm (16 x 12.5 x 5.5 in.)	360 x 300 x 150 mm (14.2 x 11.8 x 5.9 in.)
Weight	typ. 14 kg (31 lb.)	typ. 6 kg (13.2 lb.)	typ. 8 to 10.5 kg (18 to 23 lb.)	typ. 5 kg (11 lb.)

¹⁾ Depending on configuration (other configurations might differ). ³⁾ DEWE-510 series: 439 x 253 x 181 mm (17.3 x 10.0 x 7.1 in.)
²⁾ Please find current specifications in the latest price list.

Suitable A/D boards

Multi function PCI-board	Analog input					CAN bus	Counter input		Digital input	Analog output
	Channels per board	Simultaneous sampling	Resolution	Sample rate per channel	Sample rate total		Counter	Encoder		
DEWE-ORION-0824-20x	8	yes	24-bit	200 kS/s	1.6 MS/s	up to 2	up to 10	up to 10	up to 56	-
DEWE-ORION-1624	16	yes	24-bit	200 kS/s	3.2 MS/s	option ¹⁾	up to 6 ²⁾	up to 6 ²⁾	up to 32 ²⁾	-
DEWE-ORION-1616-10x	16	yes	16-bit	100 kS/s	1.6 MS/s	up to 2	up to 10	up to 10	up to 56	-
DEWE-ORION-3216-10x	32	yes	16-bit	100 kS/s	3.2 MS/s	up to 2	2	2	up to 32	-
DEWE-ORION-1616-50x	16	yes	16-bit	500 kS/s	8 MS/s	up to 2	up to 10	up to 10	up to 56	-
DEWE-ORION-0816-100x	8	yes	16-bit	1 MS/s	8 MS/s	up to 2	up to 10	up to 10	up to 56	-
M2I.3122 ³⁾	8	yes	12-bit	10 MS/s	80 MS/s	option ¹⁾	-	-	32 (option)	-
M2I.3132 ³⁾	8	yes	12-bit	25 MS/s	200 MS/s	option ¹⁾	-	-	32 (option)	-
M2I.3024 ³⁾	4	yes	12-bit	50 MS/s	200 MS/s	option ¹⁾	-	-	16 (option)	-
M2I.4022 ³⁾	4	yes	14-bit	20 MS/s	80 MS/s	option ¹⁾	-	-	8 (option)	-
M2I.4032 ³⁾	4	yes	14-bit	50 MS/s	200 MS/s	option ¹⁾	-	-	8 (option)	-
M2I.4652 ³⁾	8	yes	16-bit	3 MS/s	24 MS/s	option ¹⁾	-	-	-	-
AD16-1000-16 ⁴⁾	16	no	16-bit	62.5 kS/s	1 MS/s	option ¹⁾	2	2	8	up to 2 ⁵⁾
AD32-1000-16 ⁴⁾	32	no	16-bit	31.25 kS/s	1 MS/s	option ¹⁾	2	2	32	up to 4 ⁶⁾
AD64-1250-12 ⁴⁾	64	no	12-bit	19.5 kS/s	1.25 MS/s	option ¹⁾	2	-	-	2
AD64-100-16 ⁴⁾	64	no	16-bit	1.5 kS/s	100 kS/s	option ¹⁾	2	-	-	2

¹⁾ only with PCI-CAN2 option ³⁾ Not available for DEWE-501/510 series, DEWE-570 and DA-120 series
²⁾ only with ORION-EXP-CNT6 option ⁴⁾ Not available for DEWE-501/510 series and DA-120 series
⁵⁾ AD16-1000-16-OUT2 only ⁶⁾ AD32-1000-16-OUT4 only

Optional PCI boards

Further PCI boards	Channels per board	Boards per system (max.)	Typ. frame rate (per board)
PCI FireWire® (IEEE-1394) (for video acquisition)	2 ¹⁾	4	up to 100 fps at 640 x 480 pixel; up to 240 fps at 640 x 240 pixel up to 500 fps at 640 x 95 pixel; up to 1000 fps at 640 x 45 pixel up to 1500 fps at 640 x 27 pixel; fps = frames per second

¹⁾ 1 camera on 1 card for full speed. Also 2 cameras can be connected to a single FireWire® card but the max. frame rate will be reduced (e.g. max. 30 fps at 640 x 480 pixel)!



The built-in battery monitoring display shows the remaining operation duration!



Key Features:

- Battery-powered operation up to 3 hours with only one battery-set
- Hot swappable batteries for unlimited operation time



All battery powered instruments have an input range between 18 and 24 V_{DC}



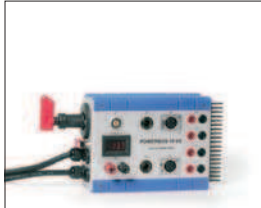
Standard AC/DC power supply (range: 100 to 240 V_{AC})



Optional isolated DC/DC power supply (range: 10 to 36 V_{DC})

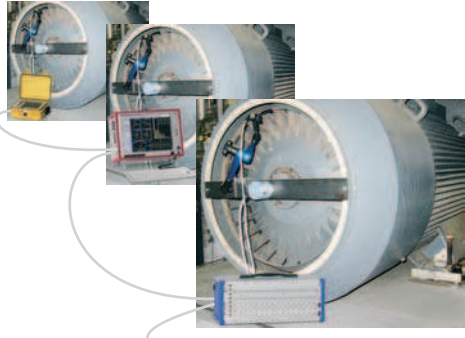


Optional battery charger (range: 90 to 260 V_{AC})

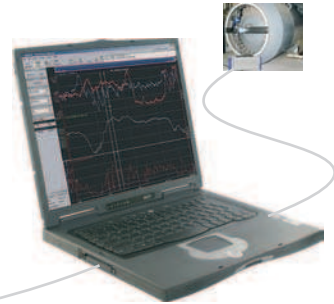


DEWE-POWERBOX-10 DC Power distribution box

Typical Applications



Notebook interface (DEWESoft-NET)
 Distributed installation of DEWE-501 for fast, slow and triggered data acquisition, as well as local storing. Additionally online data transfer to the central station to get the complete data overview. All channels in the distributed installed DEWE-501 are synchronized, individual channels of each system can be shown and stored in the central station. (option DEWESoft-NET)



Mobile display for car applications

Brake test, ride- and handling-test, road load data acquisition, pass-by noise test ... all these tests do require high channel counts synchronized with CAN-bus, counters, GPS, video and more.

The built-in battery offers continuous operation without the carpower. This is most important for development of hybridcars as well as sensitive high-tech cars with many bus systems.



Data-logger application with USB remote control panel

The durability test requires the automatic start of the measurement as well as the stop of the acquisition seconds after the vehicle stops (option CAR-PWR-MGMT). The remote control panel offers the possibility to display and control basic DEWESoft functions (option USB-PANEL-1).



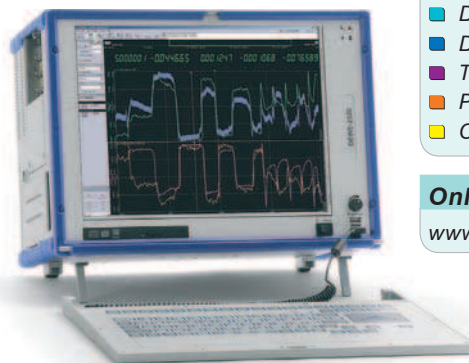
Unmanned operation with WLAN

The software option DEWESoft-NET includes the completely remote control as well as the online data transfer. When using a WLAN it becomes a perfect solution for unmanned remote data acquisition (option USB-PANEL-1).



DEWE-2520

- Compact battery powered portable instrument
- Either 16 DAQ or 64 MDAQ input channels
- Up to 5 PCI slots for A/D or other PCI boards (1394, 1553, CAN, ...)
- Sensor input at the rear side
- Large 15" TFT display
- Hot-swappable batteries for continuous operation without a power source (up to 2 hours)



Recommended Usage:

- NET Solution
- Data Recorder
- Dynamic Signal Analyzer
- Transient Recorder
- Power Network Analyzer
- Combustion Analyzer

Online Information:

www.dewetron.info/DEWE-2520

DEWE-2520 Series: Battery Powered Instruments			
Input specifications	DEWE-2520	DEWE-2521	DEWE-2522
Slots for DAQ or PAD modules	16	-	16
MDAQ input channels	-	up to 64	up to 32
Main system ¹⁾			
Total PCI-slots	3 full / 1 half length	5 full / 1 half length	3 full / 1 half length
Weight	typ. 14 kg (31 lb.)	typ. 13.5 kg (30 lb.)	typ. 14.5 kg (32 lb.)
Hard disk	250 GB		
Data throughput	30 to 45 MB/s ²⁾		
Power supply	Battery powered External AC power supply 100 to 240 V _{AC} included External DC power supply 9 to 36 V _{DC} optional		
Display	15" TFT display, 1024 x 768 pixel		
Processor	Intel® Pentium® M (1.8 GHz)		
RAM	1 GB		
Ethernet	10/100/1000 BaseT		
USB interfaces	2		
RS-232 interface	1		
Storage drive	Internal DVD +/-RW burner		
Operating system	Microsoft® WINDOWS® XP Professional		
Dimensions (W x D x H)	409 x 240 x 291 mm (16.1 x 9.4 x 11.5 in.)		
Environmental specifications			
Operating temperature:			
when discharging batteries	0 to +50 °C		
when charging batteries	0 to +45 °C		
with batteries removed	-5 to +50 °C		
Storage temperature	-20 to +60 °C		
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity		
Vibration	MIL-STD 810F 514.5, procedure I		
Shock	MIL-STD 810F 516.5, procedure I		

¹⁾ Please find current specifications in the latest price list

²⁾ Depends on the system configuration. Examples:

- DEWE-2521 with 4x DEWE-ORION-1624 = 43 MB/s
- DEWE-2522 with 2x DEWE-ORION-1624 + DEWE-VIDEO-100-COL = 40 MB/s

System options				
Option	Description	DEWE-2520	DEWE-2521	DEWE-2522
DEWE-DCDC-24-300-ISO	External DC/DC converter with isolation, 9 to 36 V _{DC} input range, 24 V _{DC} output, 300 W	opt.	opt.	opt.
BAT-95WH	Lithium-Ion battery, 14.4 V, 95 Wh, max. 8 A	opt.	opt.	opt.
BAT-CHARGER	Desktop battery charger, incl. external AC adaptor	opt.	opt.	opt.
MDAQ-PANEL-SPEC	Configuration of a MDAQ panel other than standard	-	opt.	-
DISP-15-TOUCH	15" touch-screen (requires one USB interface)	opt.	opt.	opt.



All battery powered instruments have an input range between 18 and 24 V_{DC}



Standard AC/DC power supply (range: 100 to 240 V_{AC})



Optional isolated DC/DC power supply (range: 10 to 36 V_{DC})



Optional battery charger (range: 90 to 260 V_{AC})



Rugged Aluminium front cover protects the display and includes the keyboard



DEWE-2520

DEWE-2520

Flexible version with DEWE-DAQ- and/or PAD-modules. Whenever the application requires the measurement of different signals like mV, kV, strain, thermocouples ... mixed and on different voltage potentials (to avoid ground loops), **isolated** differential amplifier inputs are required. The DEWE-DAQ modules offer isolated differential inputs with very high overvoltage protection. For detailed module selection see "signal conditioning amplifiers" section.

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



DEWE-2521-A

DEWE-2521-B

DEWE-2521

High channel count version for direct sensor input. All sensors, like load cells (MDAQ-INT-BRIDGE), accelerometers (MDAQ-INT-ACC) or any other sensor with voltage output and sensor excitation (MDAQ-V-DSUB) are best connected with differential input offered with the DEWE-MDAQ series. MDAQ-modules are available in 8-channel blocks. For detailed module selection see "signal conditioning amplifiers" section.

A-series with modular MDAQ's and B-series with fixed DSUB connectors.

Max. channel count	ANALOG	64 MDAQ channels
	DIGITAL	I/O card & counter & CAN



DEWE-2522

DEWE-2522

Most flexible version for direct sensor and different non-referenced signals.

Sensors can be connected "differential" at MDAQ-modules. High voltage signals or signals where isolation is required need to be connected on DAQ-modules. The DEWE-2522 offers both module types in one chassis.

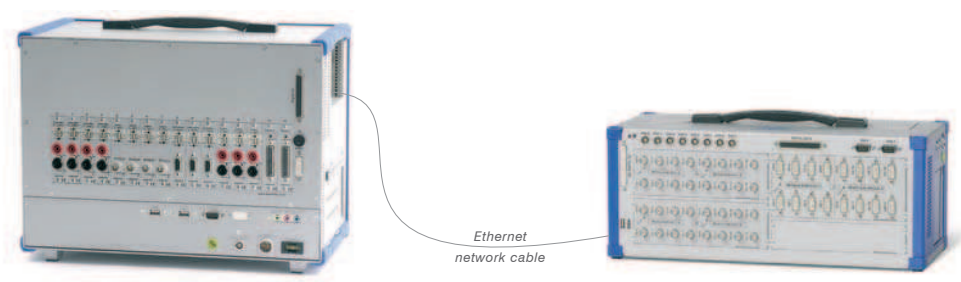
Max. channel count	ANALOG	16 DAQ & 32 MDAQ
	DIGITAL	I/O card & counter & CAN

Channel expansion with DEWE-NET

With DEWE-NET all PC instruments can be connected via LAN. To synchronize all A/D converters in each system the option DEWE-SYNC is required (one LAN cable and one SYNC cable needed). DEWETRON offers additionally the DEWE-GPS-CLOCK option to offer the capability to synchronize the A/D clock of several systems without any cable-connection.

DEWESoft-NET offers several modes of data storing:

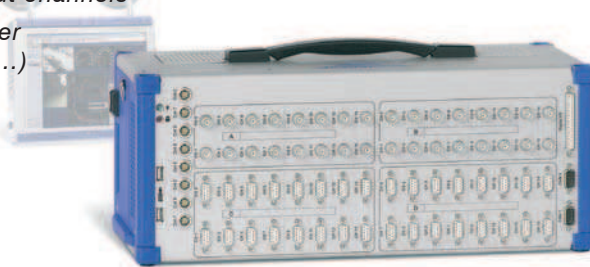
- online data transfer from the slave measurement unit to the master measurement unit (see example below)
- store data in the slave measurement unit and transfer the data after the acquisition to the master unit
- the slave measurement unit acquires the data continuously; Any master unit can receive the data via network.



DEWE-2520 with DEWE-501-A in NET configuration

DEWE-500 / DEWE-510

- Compact battery powered portable instrument
- Either 16 DAQ or 64 MDAQ input channels
- Up to 3 PCI slots for A/D or other PCI boards (1394, 1553, CAN, ...)
- Sensor input at the front side
- Hot-swappable batteries for continuous operation without a power source (up to 2 hours)
- Perfect solution for in-vehicle data acquisition



Recommended Usage:

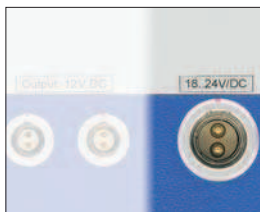
- NET Solution
- Data Recorder
- Dynamic Signal Analyzer
- Transient Recorder

Online Information:

www.dewetron.info/dewe-500

DEWE-501 / DEWE-510 Series: Battery Powered Instruments			
Input specifications	DEWE-501	DEWE-510	DEWE-511
Slots for DAQ or PAD modules	-	16	-
MDAQ input channels	up to 64	-	up to 64
Main system ¹⁾			
Total PCI-slots	2 (half length)	2 (half length)	3 (half length)
Weight	typ. 6.5 kg (14 lb.)	typ. 9 kg (20 lb.)	typ. 8.5 kg (19 lb.)
Dimensions (W x D x H)	439 x 188 x 181 mm (17.3 x 7.4 x 7.1 in.)	439 x 250 x 181 mm (17.3 x 9.8 x 7.1 in.)	
Hard disk	30 GB	250 GB	
Data throughput	12 to 18 MB/s ²⁾	30 to 45 MB/s ³⁾	
Power supply	Battery powered External AC power supply 100 to 240 V _{AC} included External DC power supply 9 to 36 V _{DC} optional		
Processor	Intel® Pentium® M (1.8 GHz)		
RAM	1 GB		
Ethernet	10/100 BaseT		
USB interfaces	2		
RS-232 interface	1		
Operating system	Microsoft® WINDOWS® XP Professional		
Environmental specifications			
Operating temperature			
when discharging batteries	0 to +50 °C		
when charging batteries	0 to +45 °C		
with batteries removed	-5 to +50 °C		
Storage temperature	-20 to +60 °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		

¹⁾ Please find current specifications in latest price list
²⁾ Data throughput with special 30 GB CAR-HDD is 12 MB/s (installed by default), with optional 100 GB HDD the data throughput is 18 MB/s
³⁾ Data throughput depends on system configuration



All battery powered instruments have an input range between 18 and 24 V_{DC}



Standard AC/DC power supply (range: 100 to 240 V_{AC})



Optional isolated DC/DC power supply (range: 10 to 36 V_{DC})



Optional battery charger (range: 90 to 260 V_{AC})



The carrying bag is included as standard accessory



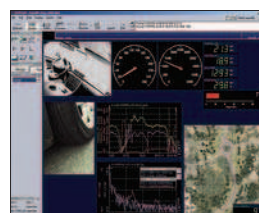
MOB-DISP-x
External displays



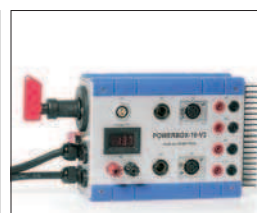
WLAN
Unmanned operation with WLAN



USB-PANEL-1
to display and control DEWESoft basic functions



DEWESoft
Data acquisition software



DEWE-POWERBOX-10
DC Power distribution box

BATTERY POWERED INSTRUMENTS DEWE-500

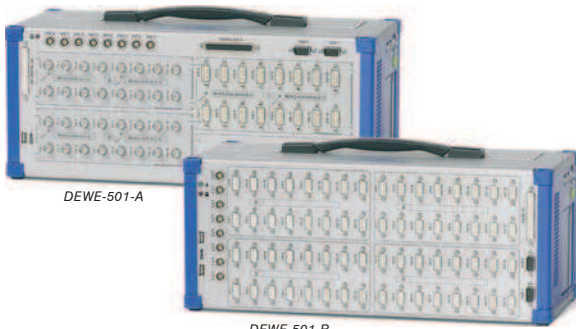


DEWE-510

DEWE-510

Flexible version with DEWE-DAQ- and/or PAD-modules. Whenever the application requires the measurement of different signals like mV, kV, strain, thermocouples ... mixed and on different voltage potentials (to avoid ground loops), **isolated** differential amplifier inputs are required. The DEWE-DAQ modules offer isolated differential inputs with very high overvoltage protection. For detailed module selection see "signal conditioning amplifiers" section.

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



DEWE-501-A

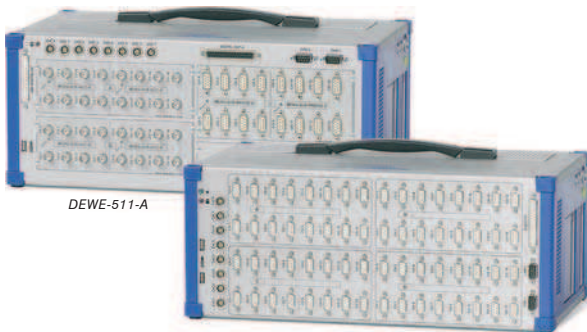
DEWE-501-B

DEWE-501-A and DEWE-501-B

High channel count version for direct sensor input. All sensors, like load cells (MDAQ-SUB-BRIDGE-D), accelerometers (MDAQ-SUB-ACC) or any other sensor with voltage output and sensor excitation (MDAQ-V-DSUB) are best connected with differential input offered with the DEWE-MDAQ series. MDAQ-modules are available in 8-channel blocks. For detailed module selection see "signal conditioning amplifiers" section.

A-series with modular MDAQ's and B-series with fixed DSUB connectors.

Max. channel count	ANALOG	64 MDAQ channels
	DIGITAL	I/O card & counter & CAN



DEWE-511-A

DEWE-511-B

DEWE-511-A and DEWE-511-B

DEWE-501 series with 2 additional PCI slots for more A/D boards.

A-series with modular MDAQ's and B-series with fixed DSUB connectors.

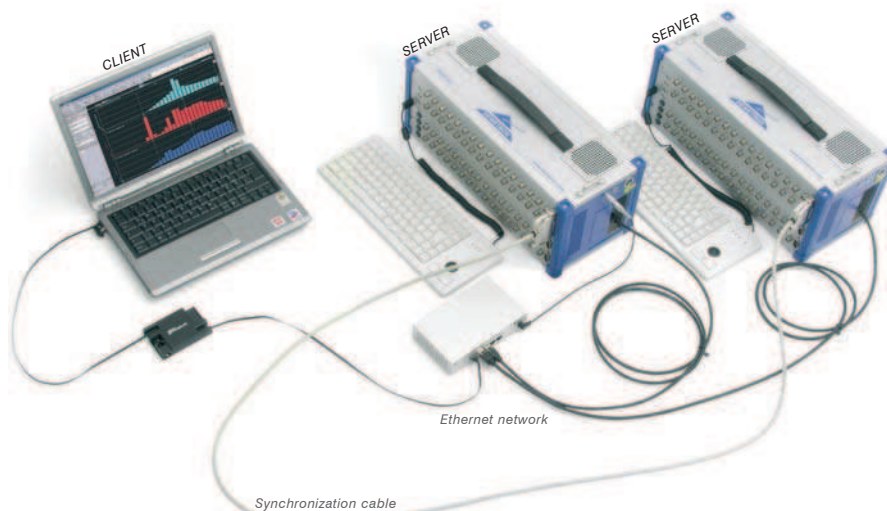
Max. channel count	ANALOG	64 MDAQ modules
	DIGITAL	I/O card & counter & CAN

Channel expansion with DEWE-NET

With DEWE-NET all PC instruments can be connected via LAN. To synchronize all A/D converters in each system the option DEWE-SYNC is required (one LAN cable and one SYNC cable needed). DEWETRON offers additionally the DEWE-GPS-CLOCK option to offer the capability to synchronize the A/D clock of several systems without any cable-connection.

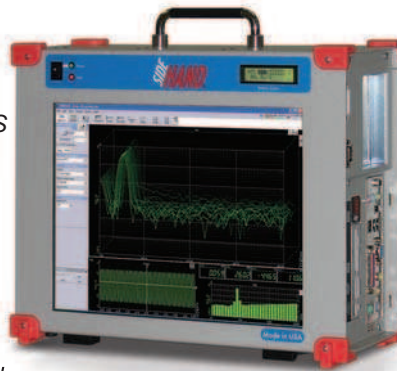
DEWESoft-NET offers several modes of data storing:

- online data transfer from the slave measurement unit to the master measurement unit (see example below)
- store data in the slave measurement unit and transfer the data after the acquisition to the master unit
- the slave measurement unit acquires the data continuously; Any master unit can receive the data via network



DA-120 Series

- Choice of popular DA-120 series models
- Covering a wide range of applications
- Ideal for mobile testing, or when a long-life UPS is essential
- The most powerful processors available in a portable Dewetron system: Intel CoreDuo®
- Hot swappable batteries for unlimited operation time
- Touchscreen display is standard
- Available solid state HDD for high shock & vibrate work, or with removable HDD for classified work



Recommended Usage:

- NET Solution
- Data Recorder
- Dynamic Signal Analyzer
- Transient Recorder
- Power Network Analyzer
- Combustion Analyzer

Online Information:

www.dewetron.info/da-120

DA-120 series

Dynamic inputs capacity:

MDAQ modules built-in	1 (16 channels)
MDAQ modules external	Up to 3 (48 channels)
Total dynamic channels	Up to 64
Digital I/O and encoder inputs	According to which A/D card is used

Static inputs capacity

EPAD modules external	Up to 16 (128 channels)
-----------------------	-------------------------

Other input types:

CAN BUS channels	Up to 4 ports internal; varying number of channels per port (from a few to hundreds)
VIDEO inputs	1 x DirectX (USB 2.0), plus one synchronized/higher speed video input can be used at once
Max combination of dynamic and static inputs per chassis	256 dynamic channels + 40 digital I/O + 10 counter/encoder + 128 static channels + GPS + Video + 256 CAN bus channels... (aggregate throughput and processor resources dependent)

Data throughput

Standard system	17 MB/s
With STREAM option	>50 MB/s

Hard drive

Standard drive	100 GB
Typ. recording duration - 16 ch @ 100 kS/s/ch	40 hours

Main system

CPU format and processor	Intel CoreDuo® CPU, 1 GB RAM
Display	High brightness 15" diagonal 1024 x 768 XGA resolution
Touchscreen	Standard, resistive type
Computer interfaces	Gigabit Ethernet, 2 x USB 2.0, 1 x IEEE-1394 firewire (4 pin), EPAD RS485 3), EPP parallel, 2 x PS/2, RS232 serial on DSUB9 connector, video output
Flash media ports	4-port flash media bay accepts numerous media types, including CompactFlash, SD, MS, and more
DVD/CD drive	DVD-CD-RW drive including DVD and CD burning software utility

Dimensions and Weight

W x H x D	
metric (mm)	407 x 340 x 114
English (inches)	15.5 x 12.5 x 5.5
Weight (without batteries)	
metric (kg)	10
English (lbs)	22

Applications



All types of mobile and vehicle related testing



Aerospace and flightline test & recording



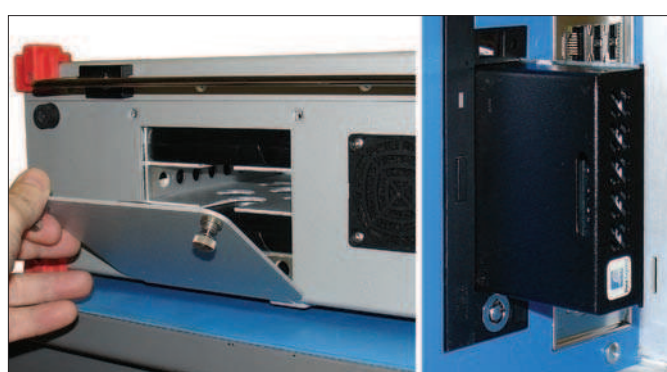
New car inspection, dynamic brake and acceleration testing



Roller coasters, people movers, escalators, elevators

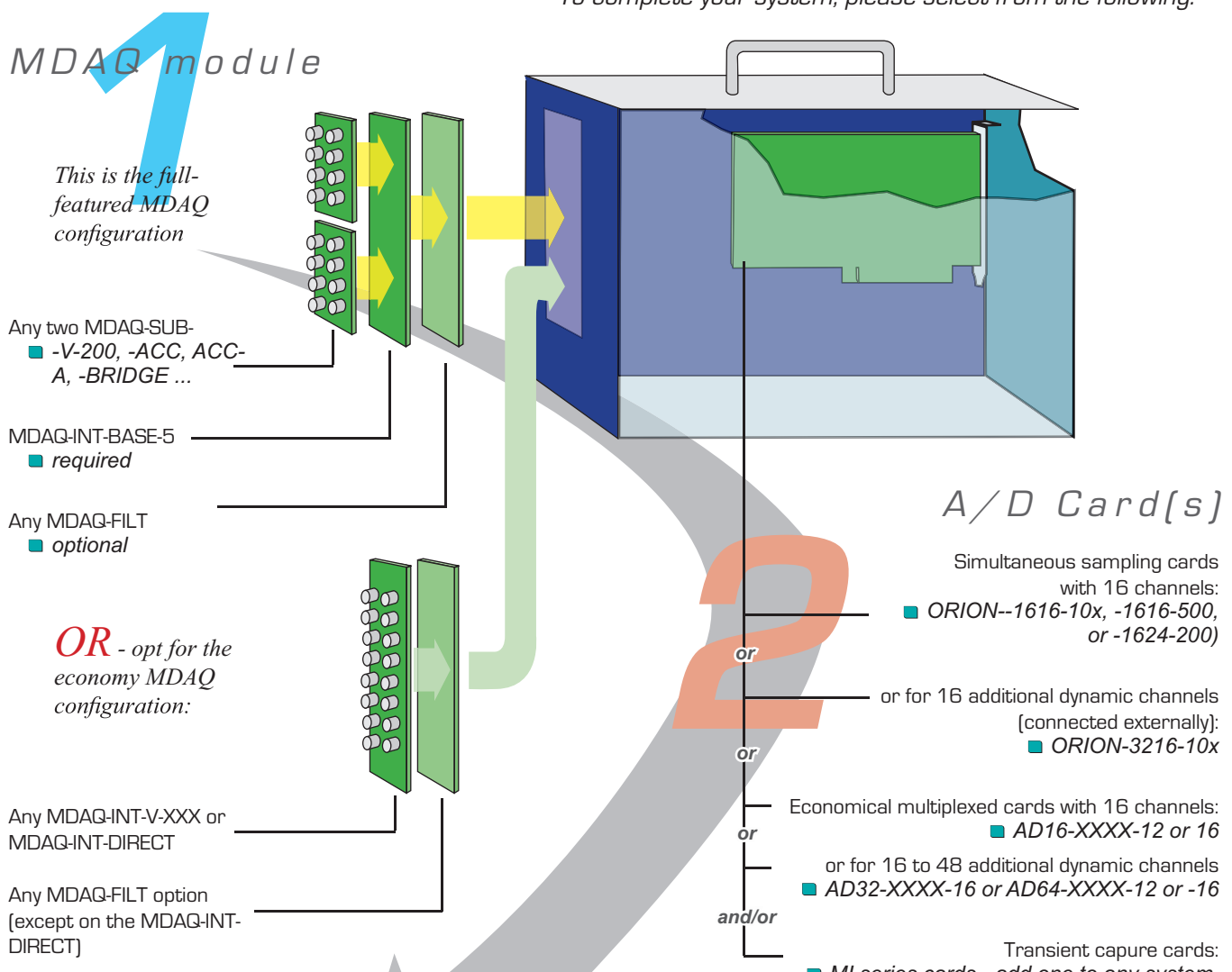
It Changes Everything...
 Imagine what having a full-power computer which can run for hours without any access to power could mean to you. It puts a whole new spin on data acquisition and recording, by cutting the chain to a power source. And talk about convenience: you can set up the system in the lab, then just carry it out to a car, aircraft, factory floor, power plant, train, truck...and start using it. No need to power off and then reboot back on again. That's a huge time-saver!

And there are no compromises: these are fully featured Dewetron instruments with all the capabilities you expect: simultaneous recording of analog, video, audio, GPS, IRIG, and more!



Left: battery door makes hot-swapping fast and convenient
 Right: A removable HDD is a popular option for many applications

DA-121 Configuration Guide:
 To complete your system, please select from the following:



- 3 Software**
- If your system has...
- ...one A/D card*, one camera, no IRIG: choose DEWESoft-6-SE
 - ...two A/D cards, or more than one camera, or IRIG: choose DEWESoft-6-PROF
 - ...or if you require advanced shock and vibration capabilities, choose DEWESoft-6-DSA
 - ...if you have a TRANSIENT card and need to use it in transient mode, add DEWETrans
 - ...if you want advanced post analysis, add Flexpro

DEWE-570-PNA

- Rugged small-size standalone instrument
- 4 voltage and 4 current input channels for power quality & fault recording applications
- Perfect solution for maintenance applications
- Internal 10.4" TFT display
- Hot-swappable batteries for continuous operation without a power source (up to 2 hours)



Recommended Usage:

- NET Solution
- Data Recorder
- Power Network Analyzer

Online Information:

www.dewetron.info/dewe-570

DEWE-570-PNA: Battery Powered Instruments	
Input specifications	DEWE-570-PNA
MDAQ input channels	-
Internal signal conditioned channels	8
Main system ¹⁾	
Total PCI-slots	1 (half length)
Hard disk	30 GB
Data throughput	12 to 18 MB/s ²⁾
Power supply	Battery powered External AC power supply 100 to 240 V _{AC} included External DC power supply 9 to 36 V _{DC} optional
Display	10.4" TFT display, 1024 x 768 pixel
Processor	Intel® Pentium® M (1.8 GHz)
RAM	512 MB
Ethernet	10/100/1000 BaseT
USB interfaces	2
RS-232 interface	1
Operating system	Microsoft® WINDOWS® XP Professional
Dimensions (W x D x H)	360 x 300 x 150 mm (14.2 x 11.8 x 5.9 in.)
Weight	typ. 6 kg (13 lb.)
Environmental specifications	
Operating temperature	
when discharging batteries	0 to +50 °C
when charging batteries	0 to +45 °C
with batteries removed	-5 to +50 °C
Storage temperature	-20 to +60 °C
Humidity	10 to 90 % non cond., 5 to 95 % rel. humidity
Vibration	MIL-STD 810F 514.5, procedure I
Shock	MIL-STD 810F 516.5, procedure I
¹⁾ Please find current specifications in latest price list	
²⁾ The data throughput depends on the system configuration e.g. DEWE-570 with 1x DEWE-ORION-1616-50x = 8 MB/s	

Input specifications

Input Specifications			
Voltage input		Current input	
Input ranges	up to 700 V	Ampflex input	0 to 3000 A (45 cm / 80 cm)
Bandwidth	10 Hz to 350 kHz	Direct input	0 to 5 A
Input resistance	1 MOhm	Current clamps	0 to 5 A
Isolation voltage	6 kV		0 to 10 A
Accuracy	< 0.5 %		0 to 20 / 200 A
Connection	1 phase, 3 phase, 3 phase with N, star-, triangle-, Aron- and mixed star/delta connection		0 to 1000 A
Safety	600 V, CAT III, pollution 2	Standards	
Digital I/Os		Safety	IEC 61010-1, 600 V _{AC} , RMS, CAT III, pollution 2
Trigger and storing input	24 V _{DC}	EMC	EN 50082-2 industrial norm
Trigger output	NO contact 60 V _{DC}	Analysis procedures	EN 50160, IEC 61000-2, IEC 61000-3, IEC 61000-4 EN 61000-4-30 (preliminary document)



www.systemtech.se

Tel: 013-35 70 30
sales@systemtech.se
 Box 304 • 581 02 LINKÖPING