



Automotive  
Field Service  
Environmental  
Research & Development



## **DEWE-RACK Modular Amplifier Systems**

*DEWE-RACK solutions are used for nearly every portable and stationary data acquisition application, using high precision amplifiers.*

*DEWE-RACK systems are used within labs, test beds, notebook solutions, and many more.*

*Signal outputs are optimized with impedance converters to achieve the best results with A/D boards from major manufacturers.*

*This qualifies our DEWE-RACK's for precise PC data acquisition systems, signal conditioning for recorders, data logger, oscilloscopes, etc.*

**Advantages:**

- 6 versions for 4, 8, 16, 32, 48 or 64 amplifiers
- Signal conditioning for all systems using DAQx modules
- Decentralized multi channel data acquisition via PAD modules
- Data transfer from PAD modules through RS232/485 interface

...the precision signal conditioning company



[www.dewetron.com](http://www.dewetron.com)

## System overview

DEWE-RACK Systems			
	RACK-4	RACK-8	RACK-16
Amplifier slots	4	8	16
A/D board configuration	SUB-D-15	For National Instruments E-series or Microstar others with DEWE-RACK-SPEC option	
Parallel outputs $\pm 5$ V*	Standard to 4x BNC	Standard to 8x BNC	16x BNC with option DEWE-RACK-OUT-5-16
Parallel outputs $\pm 10$ V*	-	8x BNC with option DEWE-RACK-OUT-10-8	16x BNC with option DEWE-RACK-OUT-10-16
A/D Converter	external	external	external
RS-232/485 interface	Standard	Option DEWE-RACK-SERIAL	Option DEWE-RACK-SERIAL
Standard power supply	15 VDC ( $\pm 3$ %), incl. 230 VAC adaptor (110 VAC on request)	230 VAC / 50 Hz (110 VAC / 60 Hz on request)	230 VAC / 50 Hz (110 VAC / 60 Hz on request)
Optional power supply	-	DEWE-RACK-AC DEWE-RACK-DC	DEWE-RACK-AC DEWE-RACK-DC DEWE-RACK-DC-UPS
Dimensions (W x H x D)	137 x 109 x 145 mm (5.4 x 4.3 x 5.7 in.)	247 x 142 x 200 mm (9.7 x 5.6 x 7.9 in.)	410 x 115 (142**) x 200 mm (16.1 x 4.5 (5.6**) x 7.9 in.)
19" mounting	-	-	Option DEWE-RACK-MK
Typ. weight	1 kg (2 lbs)	3 kg (6.5 lbs)	4 kg (9 lbs)
* These options can not be installed in one DEWE-RACK at the same time			
** The height of the DEWE-RACK-16 changes to 142 mm, if the option DEWE-RACK-DC-UPS is installed			

DEWE-RACK Systems			
	RACK-32	RACK-48	RACK-64
Amplifier slots	32	48	64
Configuration	Standard for National Instruments E-series or Microstar**, other with DEWE-RACK-SPEC option		
Parallel outputs $\pm 5$ V*	32x BNC with option DEWE-RACK-OUT-5-32	48x BNC with option DEWE-RACK-OUT-5-48	64x BNC with option DEWE-RACK-OUT-5-64
Parallel outputs $\pm 10$ V*	32x BNC with option DEWE-RACK-OUT-10-32	48x BNC with option DEWE-RACK-OUT-10-48	64x BNC with option DEWE-RACK-OUT-10-64
A/D Converter	external	external	external
RS-232/485 interface	Option DEWE-RACK-SERIAL	Option DEWE-RACK-SERIAL	Option DEWE-RACK-SERIAL
Standard power supply	230 VAC / 50 Hz (110 VAC / 60 Hz on request)		
Optional power supply	DEWE-RACK-AC DEWE-RACK-DC	DEWE-RACK-AC DEWE-RACK-DC	DEWE-RACK-AC DEWE-RACK-DC
Dimensions (W x H x D)	410 x 220 x 200 mm 16.1 x 8.7 x 7.9 in.	410 x 360 x 200 mm 16.1 x 14.2 x 7.9 in.	410 x 421 x 200 mm 16.1 x 16.6 x 7.9 in.
19" mounting	-	-	Option DEWE-RACK-64-MK
Typ. Weight	7 kg (15 lbs)	10 kg (22 lbs)	13.5 kg (30 lbs)
* These options can not be installed in one DEWE-RACK at the same time			
** For Microstar boards, additional Microstar hardware may be required			



**DEWE-RACK-4:**  
With only 4 PAD modules,  
32 channels can be acquired

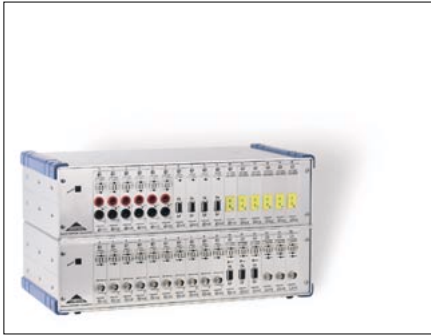


**DEWE-RACK-8:**  
Up to 8 amplifiers with signal  
output to A/D board and BNC



**DEWE-RACK-16:**  
Up to 16 amplifiers with signal  
output to A/D board

*...the precision signal conditioning company*



DEWE-RACK-32



DEWE-RACK-48



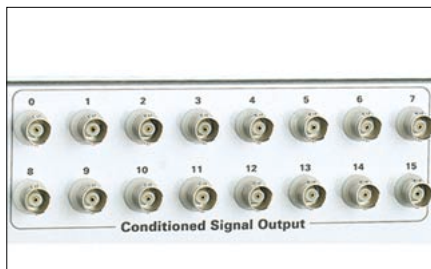
DEWE-RACK-64

Common specs and options:

DEWE-RACK Systems	
<b>General Specifications</b>	
Operating temperature	-10 ° C to +50 ° C (enhanced temperature range upon request)
Storage temperature	-20 ° C to +70 ° C
Humidity	10 % to 80 % non condensed, 5 % to 95 % relative humidity
Vibration	MIL-STD 810F 514.5, procedure I
Schock	MIL-STD 810F 516.5, procedure I
<b>DEWE-RACK Options</b>	
DEWE-RACK-AC	Multi range power supply 115 / 230 VAC, switchable
DEWE-RACK-DC	DC power supply 9 to 40 VDC in place of standard power supply
DEWE-RACK-DC-UPS	DC power supply 10 to 32 VDC in place of standard power supply, with integrated UPS battery
DEWE-RACK-MK	19" rack-mount kit for DEWE-RACK-16, 3 U
DEWE-RACK-OUT-5-x	BNC jacks for $\pm 5$ V output signal (for DEWE-RACK-8, 16, 32, 48 or 64 only)
DEWE-RACK-OUT-10-x	BNC jacks for $\pm 10$ V output signal (for DEWE-RACK-8, 16, 32, 48 or 64 only)
DEWE-RACK-SERIAL	RS-232/485 interface for programming of DAQP or PAD modules (for DEWE-RACK-8, 16, 32, 48 or 64 only)
DEWE-RACK-CABLE	Connection cable for DEWE-RACK to A/D board



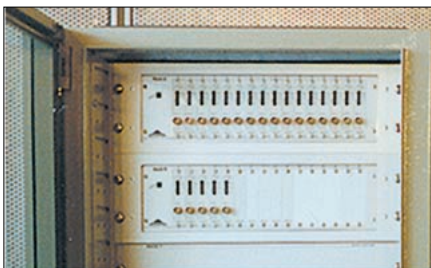
Complete test system with optional transport case



BNC option for  $\pm 5$  V or  $\pm 10$  V output



DC power supply option



DEWE-RACK-16, integrated in a 19" system

...the precision signal conditioning company

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