

HANDHELD DAQ SYSTEM - DEWE-43A

We would be remiss not to include the trusty DEWE-43A in this catalog. This handheld DAQ system features 8 universal analog inputs which can be used directly for low voltages and full-bridge measurement. DSI series adapters allow each input to handle IEPE and charge accelerometers, thermocouples, RTDs, and more.

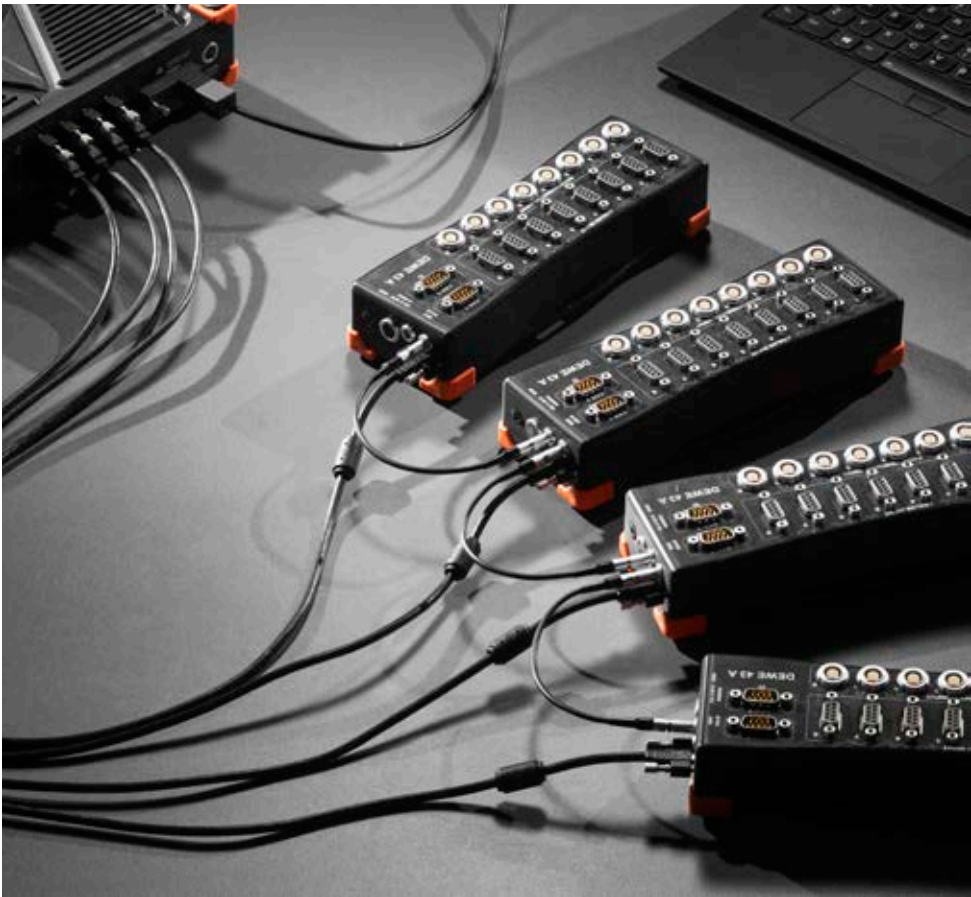
Each analog channel has a SuperCounter®, which can be used with encoders, gear tooth and tach sensors. In addition, the system includes two isolated CAN bus interfaces. Simply connect the DEWE-43A to your Win-

dows® computer via USB, install DewesoftX software, and you're ready to get to work. The system is powered by a wide-ranging 9 to 36 VDC power, so it can be used in cars, trucks, airplanes – you name it. It also includes an external AC/DC adapter, similar to one provided with a notebook computer, so that you can power it from worldwide AC, too.

Built-in SYNC ports allow you to sync multiple units together, as well as to synchronize this unit with other Dewesoft instruments like SIRIUS, KRYPTON, and more.

KEY DEWE-43A FACTS

- Each analog input is based on a 24-bit sigma-delta ADC with anti-aliasing filtering and up to 200 kS/s sample rate.
- All channels (analog, digital, and CAN) are synchronized with each other < 1 µs
- The power supply and CAN bus interfaces are galvanically isolated, eliminating ground loops
- Includes two high-speed CAN 2.0b interfaces with 1 Mbit/sec data throughput.
- Both CAN interfaces offer additional support for CCP, OBDII, J1939, and CAN output.
- Includes DewesoftX, the best overall DAQ software in the world
- The DEWE-43A won the Product of the Year award from NASA Tech Briefs magazine



Highly portable DAQ system

DEWE-43A	
ANALOG INPUTS	
Analog Connectors	DB9, female
#ch per system	8
Data rate / channel	200 kS/s (max)
Resolution	24-bit
Bandwidth	70 kHz
Voltage ranges	±10 V, ±1 V, ±100 mV, ±10 mV
Input type	Voltage and full bridge, selectable
Sensor excitation	±5 V ±0.1 % bridge sensor supply, 70 mA max.
Bridge connection	Full bridge
DSI compatibility	All DSI adapters are supported, including: IEPE, CHGx, THx, LVDT, V200, xxA
Bridge completion	1/4 and 1/2 bridge completion adapters available
Input protection	Differential with ±70V over-voltage protection
COUNTERS	
Counter inputs	8 counters/24 digital input, fully synchronized with analog inputs
Counter modes	Counting, waveform timing, encoder, tach, gear tooth sensor
Counter connectors	LEMO 7-pin connector
Input protection	±30 V continuous
CAN BUS	
Number of CAN bus ports	2
CAN type	CAN 2.0B, up to 1 MBit/sec
CAN applications	CCP, OBDII, J1939, CAN output
CAN connectors	DB9, male
Input protection	Galvanic isolation
GENERAL	
Power input	9 to 36 VDC, isolated External worldwide AC/DC adapter included
Interface to computer	USB 2.0. USB cable with locking connector included
Operating temperature	-20 °C to 60 °C (-4°F to 140°F)
Dimensions	225 x 80 x 45 mm (8.86 x 3.15 x 1.77 in.)
Weight	0.72 kg (1.59 lbs.)