

# DATS-tetrad



Rugged, portable 24-bit data acquisition system

Accurate, repeatable measurements

Operate standalone without PC

Portable & battery powered

Simple capture & analysis software

Rugged (MIL-STD vibration tested)

Interconnect for more channels

The DATS-tetrad is a rugged, mobile DAQ system that supports up to 32 high-speed analog inputs. Interconnecting Tetrads achieves higher channel counts. Many sensor input options are available to measure sound, vibration, strain, temperature, load, pressure, force, and rotational speed. Analog output and digital output provide open and closed loop control. The system has options including an internal GPS receiver and external CAN-bus logger.

The unit has hassle free, zero configuration Ethernet, WiFi & USB communication interfaces. Mains, vehicle or its internal provide power for the Tetrad. A built-in processor and solid state storage provide standalone capability. Connecting a laptop or PC allows for real time monitoring and capture via USB, Ethernet or WiFi. The Tetrad is built for flexibility.

A classic, standalone front-end or distributed setup from 4 to over 1000 channels.

## SYSTEM

Inputs	Up to 32 channels (plus tachos)
Maximum sampling rate	Up to 400k samples/sec/channel
Resolution	24 bit
Communications	Ethernet (Gigabit) USB
Multi Rate Sampling	Multiple sampling rates can run concurrently on separate cards
GPS (Optional)	Built-in with external aerial socket
I/O Options	See below
Battery (Optional)	up to 4 hours (dependent on configuration)

## TYPE OF SENSORS

Measurement	Vibration	Shock
	Acoustics	Impact
	Displacement	Torque
	Strain	Position
	Tachometers	Rotary Encoder
	Force	Temperature
	Load	Pressure
	Proximity	Photoelectric
	Load	CAN-Bus
	Other	Any suitable IEPE, charge, temperature, bridge, or powered sensor

## ENVIRONMENT & GENERAL

Operating temperature	-10°C to 45°C (14°F to 113°F) (Cold start) -20°C to 45°C (-4°F to 113°F) (Warm start)
Humidity	95% RH, non-condensing
Power usage	< 80W (worst case)
Shock and vibration	MIL-STD-810G
IP Rating	IP31
Supply voltage	Internal battery External 10-36V DC (e.g. vehicle battery) AC mains (adapter supplied)
Expansion	Stackable/Interconnectable Distributed by Ethernet and USB
Dimensions (H x W x D)	115mm x 360mm x 225mm 4.5" x 14.2" x 8.9"
Weight	~5kg/11lbs (dependent on configuration)

US DISTRIBUTOR

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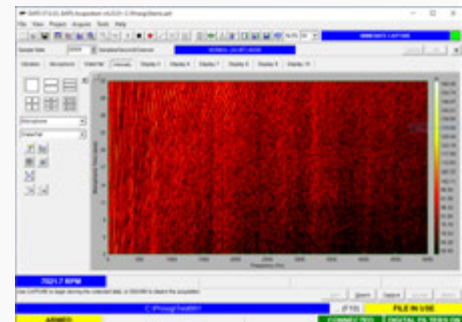
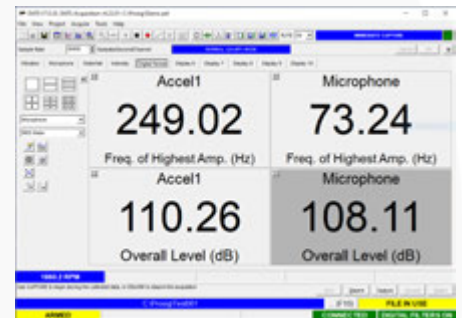
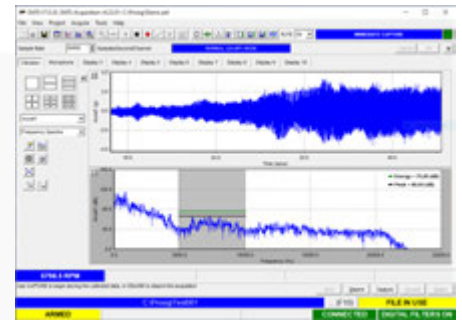
# DATS-tetrad


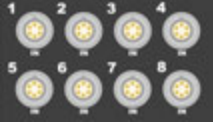






CMTG.COM

Rugged, portable 24-bit data acquisition system



Powerful, yet simple data capture



- DATS-tetrad can be configured with up to four modules from the measurement card range
- 
**8612**  
 8 channel ADC (IEPE & Direct) + Tacho
  - 
**8614**  
 8 channel ADC (IEPE, Direct & Bridge) + Tacho
  - 
**8602**  
 4 channel ADC (IEPE, Direct & TEDS) + Tacho
  - 
**8604**  
 4 channel ADC (IEPE, Direct, TEDS & Bridge) + Tacho
  - 
**8608**  
 8 channel Thermocouple
  - 
**8620**  
 4 channel Advanced Tacho
  - 
**8624**  
 2 or 4 channel DAC & Digital I/O
  - 
**8640**  
 Dual channel CAN-Bus

Specifications may be subject to change without prior notice.

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