

EDAQ Series Data Acquisition Modules

ATI EDAQ Series Data Acquisition Modules are used to collect from various applications. These modules communicate to VISION Calibration and Data Acquisition software through the VISION Network Hub using high-quality interconnects. Integrated channel per channel time stamping makes acquiring data precise.

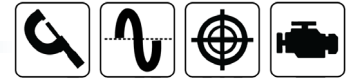


The EDAQ16AI Analog Input Module is ideal for measuring direct and/or auxiliary sensors on a vehicle, such as pressure transducers battery voltage, battery current, or fuel pump current. The EDAQ16T

Thermocouple Module is designed to capture temperature readings in all areas of the vehicle during test. Finally, the EDAQ16P Pulse Inputs Module measures frequency associated with digital signals, such as wheel speeds, solenoids, or switches.

Specifications

EDAQ16AI Analog Input Module	
Input Channels	(16) differential @13-bit resolution
Input Voltage Range	± 5 VDC with programmable gains of 1, 2, 4, and 8 ± 20 VDC with internal range switch
Measurement Speed	(4) channels at 1 KHz per channel (12) channels at 200 Hz per channel with 4x over sampling
Channel-to-Channel Isolation	120 dB
Input Impedance	10 MΩ at ±5 V, 56 kΩ ± 20 V
EDAQ16T Thermocouple Module	
Thermocouple Type	J, K, T on a channel by channel basis
Thermocouple Accuracy	± 2 °C
Cold-junction Accuracy	± 0.5 °C
Channel-to-Channel Isolation	120 dB
Measurement Speed	4 Hz per channel with 8x over-sampling
EDAQ16P Pulse Counter Module	
Inputs	(4) differential universal VRS/pulse; (4) digital pulse inputs 5-12 VDC; (8) digital state inputs
Input Signal Frequency	1 Hz to 50 KHz
Programmability	Input signal polarity, filter, pull-up, and signal level programmable
Universal Specifications	
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F
Weight (max)	40 g / 15.9 oz
Construction	IP64 sealed billet aluminum enclosure
Data/Power Connectors	Sealed LEMO 1B-Series 5-pin
Dimensions	63 x 45 x 140 mm / 2.48 x 1.77 x 5.51 in



EDAQ Data Acquisition Module Order Information

Product

Part Numbers	Description
160-0001	EDAQ16AI Analog Input Module
160-0002	EDAQ16T Thermocouple Module
160-0003	EDAQ16P Pulse Counter Module

Accessories

Part Numbers	Description	
Communication		
150-0013 150-0014 150-0015 150-0016	3.66m/12ft 10.1m/33ft 1.83m/6ft 0.15m/6in	Cable; EDAQ to EDAQ; LEMO 1B 5-pin plug, 90°/90°
150-0017 150-0018 150-0019	1.83m/6ft 3.66m/12ft 10.1m/33ft	Cable; EDAQ to EDAQ; LEMO 1B 5-pin plug, 180°/180°
150-0021 150-0022 150-0023	3.66m/12ft 10.1m/33ft 1.83m/6ft	Cable; HUB to EDAQ; LEMO 1B 5-pin plug, 90°/180°
151-0008		CAN termination; EDAQ; LEMO 1B 5-pin plug
Hardware		
151-0017 151-0018	4 pos 6 pos	Plate; mounts EDAQs and BOBs on a single plate for mobility
I/O Cables / Connectors		
151-0010		Strain Relief for EDAQ Deutsch connector
151-0011		I/O connector; EDAQ; Deutsch connector with pins
Breakout Boxes		
161-0001		Breakout box; EDAQ16AI/P; 16 BNC connectors
161-0002		Breakout box; EDAQ30T; 16 K-type thermocouple connectors
161-0007		Cable; EDAQ16AI inline cable for breakout box - adds 8-pole Butterworth

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