

Advanced Engineering

Testing Solutions



Test Cell Data Acquisition Module





MAE Data Acquisition Module

The MAE Data Acquisition Module provides an efficient means to manage all interconnections between the test article and measuring devices. The system is designed to keep the low voltage signals from various sensors separate from high voltage signals. The Data Acquisition Module is furnished with a pedestal mounting base and can be mounted in the test cell adjacent to the test stand. Alternatively, wall mounting hardware and a swivel boom arm kit can be furnished to keep the enclosure off of the test cell floor. The two different configuration requires slightly different enclosures so the decision on mounting configuration should be discussed prior to build.

Specifications

Temperature Inputs:	16 - K-Type Thermocouple inputs
Analog Inputs:	32 - 0-5VDC Analog Inputs
Digital I/O:	8 - Digital Inputs, 8 - Digital Outputs
On board Power Supply:	12VDC Power Supply
Power required:	110VAC
Update Rate:	100 Hz
Communication:	Modbus Protocol
Resolution:	16-bit
Additional Features:	<ul style="list-style-type: none"> IDEC power lights Modular Design High Quality Quick Connect Fittings E-stop button AB terminal blocks PANDUIT wire track DIN Rail



ISO 9001:2000 Certified

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Temperature Sensors:

- (1) Engine Oil Temperature
- (2) Exhaust Gas Temperature
- (1) Coolant Temperature
- (1) Inlet Air Temperature
- (1) Transmission Oil Temperature
- (1) Transmission Surface Temperature (magnetic)
- (1) Ambient Temperature

Pressure Sensors:

- (3) 1000-psi
- (8) 100psi
- (2) Vacuum to 45psi
- (2) 30psi
- (1) Station Pressure

Humidity Sensor:

- (1) Humidity Sensor (Ambient)