

Dimensions: 15.0"L x 10.5"W x 6.2"H (381mm x 267mm x 157mm)

Weight: 22 lbs. (9.9 kg)

Accessory Case: 30 lbs. (13.6 kg)

Power: 12-14 VDC

Amperage: 3-5 Amperes

Data Reporting Rate: 1 Hertz

Sample Flow: 10 liters/minute

System Computer: Selected Computer

User Interface: Push Button Power

Data Output:

Data Reported: Real-time DAQ, aligned results, test configuration (vehicle, engine, fuel, and DAQs), aggregate test results (bags)

Reporting Formats: Software UI, .txt Files, CAN Broadcasts, PEMSNet

Measured Parameters: Geolocation (GPS), Vehicle Performance/Operation (OBD/ECU, Sensor Array), engine exhaust gaseous constituents, and ambient conditions

Additional Parameters: Grams of pollutant per second (g/s), Intake air flow, exhaust air flow, and fuel consumption (not all inclusive)

Optimal Instrument Conditions:

5°C to 35°C (40°F to 95°F)

0-90% relative humidity (RH), non-condensing

Emission Collection: Condensation bowls, probes, handles, and hoses

Applicable Operational Engines: Axion has been successfully utilized in the operation of lawn equipment, motorcycles, ATVs, passenger vehicles, trucks, construction equipment, marine vessels, semi-trucks, and locomotives operating in real-world driving conditions.

Engine Information Acquisition:

Vehicle Communication Protocols (J1979 OBDII, J1587, J1939, and as requested)

Engine Sensor Array: Manifold Absolute Pressure Transducer, Thermistor, Piezoelectric Tachometer, Optical Tachometer, and Inductive Tachometer

Driver's Aid

Optional Modules:

- CAN Output
- Particulate Matter and Particle Number Module
- Ambient Sensor
 - Temperature
 - Humidity
 - Pressure