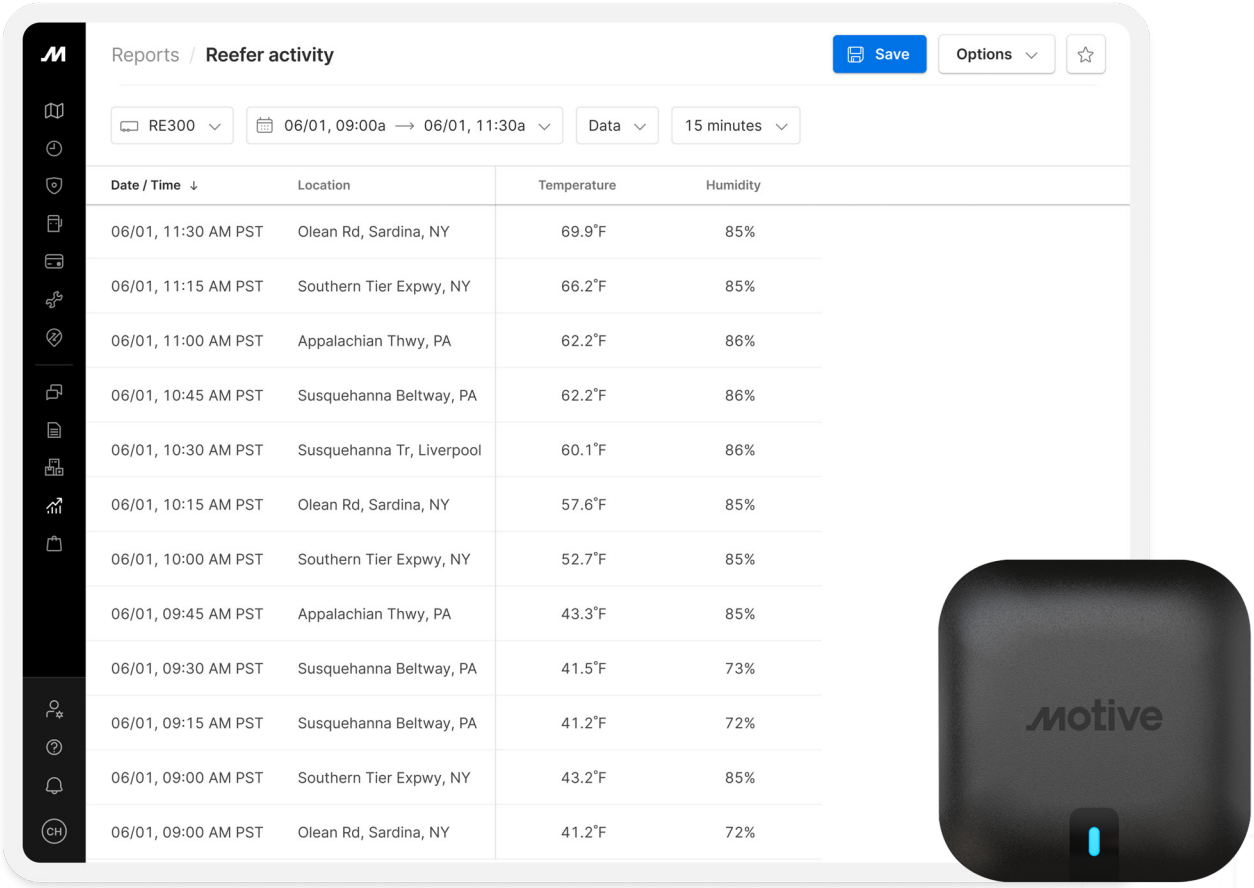
motive



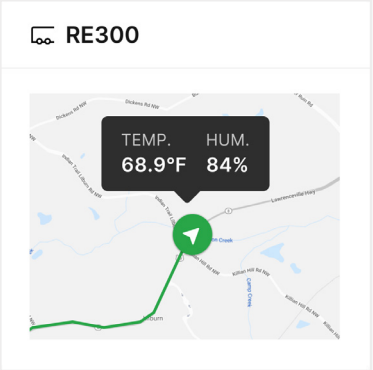
Environmental Sensor

A wireless sensor that reports temperature and humidity measurements to a Motive Gateway.

Key Benefits

Automate compliance

Eliminate manual logs and fragmented data. By integrating directly with a Motive Gateway, climate data is automatically synced with vehicle and route history.

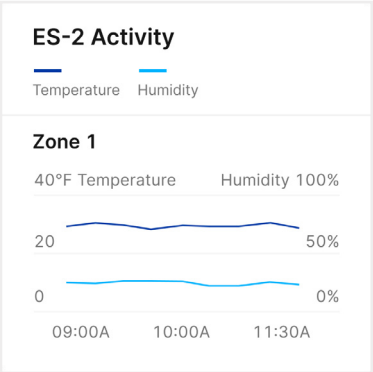


Versatile installation

Easily mounts to any trailer surface or cargo environment. Connect up to six sensors to one Motive Gateway to create a multi-point climate monitoring solution.

Precise readings

Get accurate readings with a typical temperature measurement accuracy of ±0.5°C (1°F), and relative humidity measurements between 0% and 95%, at a 1-minute sampling rate.



Specifications

Climate Sensor

Temperature and humidity measurement accuracy is provided through careful sensor component selection and manufacturing-line testing.

Sensor Temperature Specification

The sensor included in this product is designed to provide the following accuracy:

- -40°C to -10°C, Typical: ±0.6°C Max: ±1.0°C
- -10°C to +80°C, Typical: ±0.3°C Max: ±0.6°C

Long-Term Drift

The typical long-term temperature drift of our sensors is less than ±0.03°C per year.

Testing

Motive performs robust testing on each device and only accepts devices that fall within the following ranges when compared to a calibrated instrument:

- Humidity ±8% Relative Humidity.
- Temperature ±0.5°C.

For more information refer to our Calibration Statement, available on request.

Connectivity & Data

Data Capture & Transfer

Samples recorded every 1 minute. Transfers via Bluetooth.

Gateway Compatibility

- Asset Gateway Mini (AG-31.3+ only)
- Vehicle Gateway (VG3)
- Up to 6 sensors per gateway

Auto-reconnect

Automatic retry logic every 5 minutes until connection is established.

OTA Updates

Supports over-the-air firmware updates via a Motive Gateway.

Physical Specifications

Dimensions

55.4 × 53.8 × 21.0 mm (24.1 mm with mounting bracket).

Mounting

Versatile installation via industrial adhesive or screw-mount bracket.

Enclosure Rating

IP67 (Waterproof and dustproof per IEC 60529).

User Interface

Top-surface LED status indicator.

Pinhole Button

Recessed for activation, power cycling, and factory resets.

Input/Output

Fully wireless; no cables or connectors required.

Operating and Storage Range

-40°C to +85°C.

Battery & Power

Expected Life

3–5 years (dependent on environmental conditions).

Battery Type

CR2477 Coin Cell (User-replaceable, non-rechargeable).

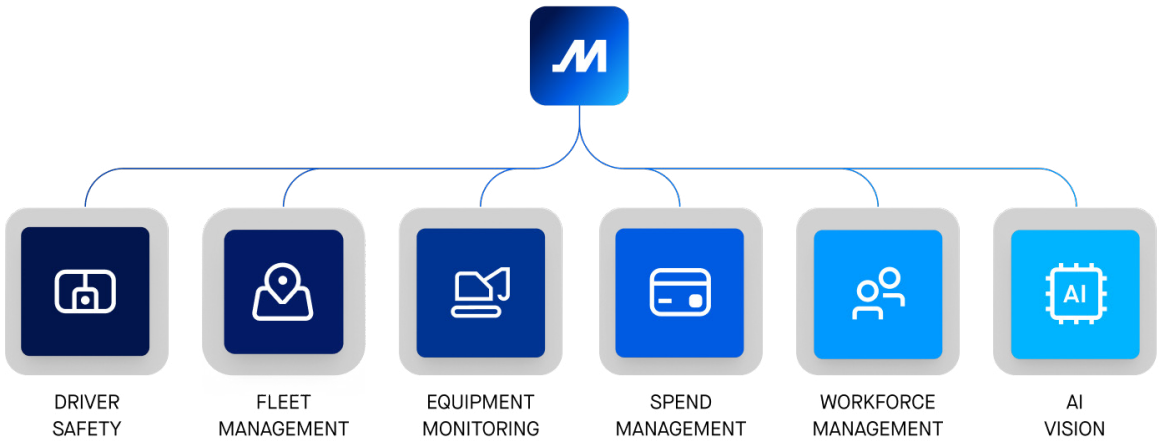
Chemistry

LiMnO2.

Rating

1.0Ah / 3.0VDC.

Motive is the AI-powered Integrated Operations Platform for the physical economy.



motive

About Motive

Motive empowers the people who run physical operations with tools to make their work safer, more productive, and more profitable. For the first time, safety, operations, and finance teams can manage their workers, vehicles, equipment, and fleet-related spend in a single system. Motive serves more than 120,000 customers from small businesses to Fortune 500 enterprises such as Halliburton, KONE, Komatsu, NBC Universal, and Maersk across a wide range of industries including transportation and logistics, construction, energy, field service, manufacturing, agriculture, food and beverage, retail, waste services, and the public sector. Visit gomotive.com to learn more.

© 2013-2026 Motive Technologies, Inc. All rights reserved.