LI-7835 Specifications

H_2 Measurements

- **Response Time (T_{10}-T_{90}):** ≤ 3 seconds
- **Range:** 0 to 2.5%
- **Precision (1σ):**
  - 5 ppm at 10 ppm with 1 second averaging
  - 3 ppm at 10 ppm with 5 second averaging

CH_4 Measurements

- **Range:** 0 to 2.5%
- **Precision (1σ):**
  - 0.5 ppm at 2 ppm with 1 second averaging
  - 0.25 ppm at 2 ppm with 5 second averaging

H_2O Measurements

- **Range:** 0 to 60,000 ppm
- **Precision (1σ):**
  - 45 ppm at 10,000 ppm with 1 second averaging
  - 20 ppm at 10,000 ppm with 5 second averaging

General Specifications

- **Measurement Technique:** OF-CEAS (Optical Feedback – Cavity Enhanced Absorption Spectroscopy) direct molecule measurements
- **Measurement Rate:** 1 sample per second (1 Hz)
- **Optical Cavity Volume:** 6.4 cm^3
- **Flow Rate:** 150 sccm nominal
- **Total Weight:** 10.5 kg (including batteries)
- **Case Dimensions:** 51 cm × 33 cm × 18 cm (L × W × H)
- **Operating Temperature Range:** : -25 °C to 45 °C (without solar load, under normal operating conditions)
- **Operating Humidity Range:** 0 to 85% RH (non-condensing, without solar load, under normal operating conditions)
- **Sample Line Humidity Range:** 0 to 99% non-condensing
- **Operating Pressure Range:** 50 to 110 kPa
- **Connectivity:** Ethernet and Wi-Fi*

Measurement for better result...

- **Wi-Fi Compatibility:** 2.4 GHz, 802.11 a/b/g/n/ac*
- **Power Consumption:**
  - **Steady State Operation:** 22 Watts at 25 °C without batteries charging
  - **Warmup:** up to 100 W with batteries charging
- **DC Power Supply Requirements:**
- Pins 1 and 5 (24 VDC Input): Minimum 6 A at 24 V
- Pins 3 and 4 (10.5 to 33 VDC Input): Minimum 14 A at 10.5 VDC; 6 A at 24 VDC
- **Power Supply Adapter (included):** Universal Power Adapter (Input: 100 to 240 VAC, 50-60 Hz; Output: 24 VDC)
- **Battery Life:** 8 hours typical with 2 batteries
- **U.S. Patents:** This product may be covered by U.S. Patents or patents pending. See www.licor.com/patents for details.

**not available in some countries*