# FLUE-Mate™

## COMBUSTION ANALYZER

### Optimize your combustion efficiency.

FLUE-Mate is the all-in-one combustion analyzer built to improve your combustion efficiency and safety. In addition to combustion analysis, this tool is also equipped with an integrated manometer, thermometer, ambient CO test, cracked heat exchanger test and provides draft analysis. FLUE-Mate features intuitive mode selection and navigation, 15 programmable fuel selections and field-replaceable $O_2$ sensor, probe and water trap to minimize downtime. Download the FLUE-Mate app to generate quick analysis reports on your smart phone or tablet. FLUE-Mate is the user-friendly, comprehensive combustion analyzer for all your heating jobs.
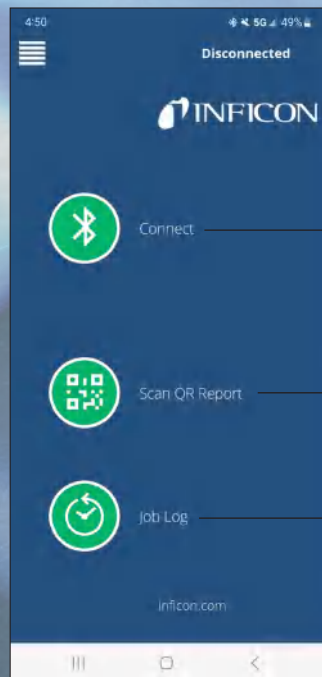
### ADVANTAGES

- Easy-to-read backlit LCD display
- Displays efficiency, $O_2$, $CO_2$, CO and flue gas temperature readings all on one screen
- Field-replaceable $O_2$ sensors to minimize downtime
- Automatic CO sensor protection
- FLUE-Mate app allows you to store and email reports
- Monitor system pressures with built-in manometer and hose kit
- External water trap prevents internal electronic and sensor damage
- Optional Bluetooth® printer
- Upgradeable to measure NOx

**2 YEAR WARRANTY**

**Li-Ion**

**Download on the App Store**

**GET IT ON Google Play**

**Bluetooth®**

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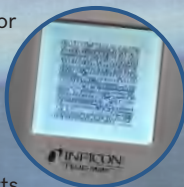**LEARN MORE HERE!**

**NEW!**



Connect for real-time readings

Scan QR code for a full report

View, edit, and share reports

## SPECIFICATIONS

| Includes | FLUE-Mate<br>Flue gas probe with 5 ft. (1.5 m) dual hose<br>Manometer pressure hose<br>Water trap<br>AC wall charger<br>Carrying case |
|---|---|
| Power source | Lithium ion battery (rechargeable) |
| Battery life | 8 hours |
| Weight | 0.77 lb. (349 g) |
| Compatible fuels | Natural gas, Propane, Fuel oil (#2, #4, or #6), Diesel, Wood, Coal, Bio-fuel 5%, L.P.G., Butane, Bagasse, B100 |

| | Range | Resolution | Accuracy | |
|---|---|---|---|---|
| **Measured** | | | | |
| $O_2$ | 0 - 25.0% vol | 0.1% vol | ±0.2% vol | |
| CO high immunity $H_2$ with NOx filter | 0 - 4000 ppm | 1 ppm | ±20 ppm<br>±5% measured value | 0 - 400 ppm<br>401 - 4000 ppm |
| Air temperature | -4.0 - 248.0°F<br>-20.0 - 120.0°C | 0.2°F<br>0.1°C | ±1.8°F<br>±1°C | |
| Flue gas temperature | -4.0 - 1472.0°F<br>-20.0 - 800.0°C | 0.2°F<br>0.1°C | ±1.8°F (±1°C)<br>±1% measured value | -4 - 212°F (-20-100°C)<br>212.2 - 1472°F (101-800°C) |
| Pressure (draft & differential) | -40.0 - +80.0 in. $H_2O$ | 0.004 in. $H_2O$ | ±1% measured value<br>±0.008 in. $H_2O$<br>±1% measured value | -40.0 - -0.81 in. $H_2O$<br>-0.80 - +0.80 in. $H_2O$<br>+0.81 - +80.0 in. $H_2O$ |
| **Calculated** | | | | |
| $CO_2$ | 0 - 99.9% vol | 0.1% vol | | |
| Temperature differential | 32.0 - 1472.0°F<br>0 - 800.0°C | 0.2°F<br>0.1°C | | |
| Air index | 0.00 - 9.50 | 0.01 | | |
| Excess air | 0 - 850% | 1% | | |
| Stack losses | 0.0 - 100.0% | 0.1% | | |
| Efficiency | 0.0 - 120.0% | 0.1% | | |

## ORDERING INFORMATION

| | |
|---|---|
| FLUE-Mate Combustion Analyzer | 502-202-G1 |
| FLUE-Mate Combustion Analyzer with Bluetooth® printer | 502-203-G1 |
| **Accessories and Replacement Parts** | |
| Bluetooth® printer | 502-600-P1 |
| $O_2$ Sensor | 502-601-P1 |
| Wall charger (US and International) | 502-602-P1 |
| Replacement filters (5 pack) | 502-603-P1 |
| Replacement printer paper rolls (5 pack) | 502-604-P1 |
| USB cable for charger | 502-605-P1 |
| Water trap filter assembly | 502-606-P1 |
| Carrying case | 502-607-P1 |
| Positioning cone for probe | 502-608-P1 |
| Replacement o-rings for water trap (5 pack) | 502-609-P1 |
| Flue gas probe with 5 ft. (1.5 m) dual hose | 502-610-P1 |
| Pressure hose kit for use with manometer | 502-611-P1 |
| Lithium ion battery | 502-612-P1 |