DWYER 1207A
QUICK REFERENCE GUIDE
ANALYZER FEATURES AND KEYPAD

ON / OFF
Turns the analyzer ON / OFF

PUMP / CAL PRESSURE
Press for 2+ seconds to zero the pressure sensor

PRINT / BACKLIGHT
Press to print “live” or “frozen” data. Press again to abort. Press for 2+ seconds to switch backlight & torch ON / OFF

LINE SELECT / FREEZE
Press to select active line on display as indicated by LED’s. Press for 2 seconds to “HOLD” Press longer to “LOG”
BEFORE USING ANY ANALYZER CHECK THAT:

- Calibration date has not expired
- Particle filter is not dirty inside
- Water trap and flue probe hose are empty of water
- Water trap is fitted correctly to the analyzer including the drain plug
- Flue probe hose is connected properly to the flue gas inlet
- Flue probe temperature plug is connected into T1 connection

Please read the Safety Warnings in the User Manual

USING THE ANALYZER

With the flue probe in fresh air at the same temperature as the boiler inlet air press \( \text{ności} \). The analyzer will auto-calibrate for 20 to 30 seconds and then a set of readings will be displayed. In fresh air the \( \text{O}_2 \) reading should be \( 20.9\% \pm 0.1\% \) and the \( \text{CO} \) reading should be zero. Check the battery status by selecting “Bat” on the rotary switch and select the correct fuel via the “menu” – See Using the Menu.

Insert the tip of the probe into the center of the flue. After approximately 60 seconds the readings should stabilize. A printout can be produced if required by pressing \( \text{print} \).

SETTING UP THE DISPLAY

Any four parameters can be displayed simultaneously. Press \( \text{move} \) to move the line select LED to the line you wish to change, then use the rotary switch to select the new parameter you require. To change other lines just repeat the procedure.
**USING THE MENU**

Select “Menu” on the rotary switch and navigate using the function buttons…

- **△** = Scroll up
- **▽** = Scroll down
- **⟵** = Enter

### MAIN MENU | SUB MENU | OPTIONS / COMMENTS
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SETUP | SET FUEL | NAT GAS, L OIL, PROPANE, BUTANE, LPG, PELLETS
N ← C → G | Select the combustion efficiency calculation required ~ N = nett eff, G = gross eff, C = for condensing boilers
SET TIME | Uses “Military” time. 7am = 07:00, 7pm = 19:00
SET DATE | North American users, select MM-DD-YY then set the date
C ← → F | °C, °F
PPM ← → MG | PPM, MG/M³
O2 REF | NO, YES
LANGUAGE | Various languages
PRESSURE | SMOOTH | OFF = fast response. ON = slow response.
RESOLVE | HIGH, LOW, selects the number of decimal places
PS UNITS | InH₂O, mmH₂O, Pa, kPa, PSI, mmHg, hPa, mBar
STORE | VIEW | View logged readings
AUTO STO | See DWYER 1207A REPORTS page
DEL ALL | NO, YES
REPORT | See DWYER 1207A REPORTS page
SCREEN | CONTRAST | Factory setting is 04
AUX | Normally set to display the current fuel type
HEADER | Sets printout header, 2 lines, 20 characters per line
SERVICE | CODE | Leave set at “0000”

To EXIT the MENU at any time simply move the rotary switch to any position other than “Menu”. Any changes that have not been “entered” will be ignored.
# DWYER 1207A REPORTS

## AUTO STORE ~ (stores up to 255 tests)
From the menu select STORE, AUTO STORE, YES. Set the time interval (in seconds) between logs. The analyzer starts logging as soon as you exit the menu and stops when you select STORE, AUTO STORE, NO.

To view the results select STORE, VIEW, then enter the log number required. Use the rotary dial and line selector to view the readings as normal. Use scroll up/down to view other log numbers.

To delete select DEL ALL, YES

## PRESSURE ~ (stores up to 8 tests)
From the menu select REPORT, PRESSURE, TEST.

Press the key to zero the pressure sensor.

CONNECT the pressure hose to pressure connection P1.

Press to start the 1 minute stabilization period.

Press again to start the 2 minute tightness test.

To view the results select REPORT, PRESSURE, VIEW.

Use scroll / to view other log numbers.

To exit press . To delete select DEL ALL, YES

## TEMPERATURE ~ (stores up to 8 tests)
From the menu select REPORT, TEMP, TEST.

CONNECT the thermocouples, “flow” to Tf, “return” to Ti.

Press once to view readings and once more to log.

To view the results select REPORT, TEMP, VIEW.

Use scroll / to view other log numbers.

To exit press . To delete select DEL ALL, YES

## ROOM CO ~ (stores up to 8 tests)
From the menu select REPORT, ROOM CO, TEST.

The pump will run and the analyzer will log the CO reading every minute for 15 minutes.

To view the results select REPORT, ROOM CO, VIEW.

Use scroll / to view other log numbers.

Use to view each reading within the ROOM CO TEST.

To exit use rotary switch. To delete select DEL ALL, YES

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### ROOM CO TEST
- **LOG**: 01
- **TIME**: 09:20 11/01/09
- **TEST**: CO ppm
  - 0: 00
  - 1: 02
  - 14: 02
  - 15: 01
  - MAXIMUM CO: 02

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### TEMP TEST
- **LOG**: 02
- **TIME**: 16:37 11/01/09
- **FLOW °F**: 48.3
- **RETURN °F**: 39.7
- **NETT °F**: 8.6

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### PRESSURE
- **LOG**: 05
- **TIME**: 15:40 11/01/09
- **PRS_1 INWG**: 20.110
- **PRS_2 INWG**: 19.998
- **DURATION MINS**: 3:00

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### TIGHTNESS TEST
- **LOG**: 05
- **TIME**: 15:40 11/01/09
- **PRS_1 INWG**: 20.110
- **PRS_2 INWG**: 19.998
- **DURATION MINS**: 3:00

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To print a displayed REPORT hold the key for 2+ seconds.

**Stock No:** 18745-2