



716 Combustion Analyzer

716
Data Sheet
06.12

Test the TPI Advantage

Features

QUICK AND SIMPLE

SET UP All TPI analyzers feature quick and simple set up. Fast purge and the ability to perform fuel selection during start up enable tests to be performed quickly without requiring extra set-up time after initial startup. TPI analyzers also use the last selected fuel as the default setting. This feature prevents the need to perform fuel selection every time the analyzer is turned on.

- Built-in differential manometer with 0.001" H₂O resolution
- Calculates combustion efficiency
- Data Logging with time and date stamp
- Will not shut off if 15 ppm CO is present for increased safety
- Communicate to a PC via the USB interface
- Optional A740 IR printer available for hard copies of test results
- Built-in differential thermometer
- Store function to save up to 10 readings
- Pump driven for fast response
- Push on fittings for fast and easy use
- Large easy to read backlit display
- Ten selectable fuels



Specifications

Instrument

| | |
|-----------------------------|---|
| Operating Temperature Range | 14°F to +122°F (-10°C to +50°C) |
| Battery / Battery Life | Rechargeable Ni-MH / > 6 Hours |
| Charger Input Voltage | 115V or 230V : 50/60 Hz AC |
| Fuels | Natural Gas, LPG, Light Oil, Heavy Oil, Bituminous Coal, Anthracite Coal, Coke, Butane, Wood, Bagasse |
| Units of Pressure | mbar, kPa & inH ₂ O |
| Display | 8 line graphical LCD Backlit |
| Data Storage | 100 sets of readings |
| Data Logging | 400 sets of readings |
| Single Logging | 150 sets of readings |
| Time & Date | 24 Hour Real Time Clock |
| Dimensions | 7.8" x 3.5" x 2.4" |
| Weight | 1.1lbs |

| Gases | Range | Resolution | Accuracy |
|-----------------------------|---------------------------------------|------------|-----------------|
| Oxygen | 0-25% | 0.1% | +/- 0.3% |
| Carbon Monoxide | 0-10,000 ppm | 1 ppm | +/- 5 ppm or 5% |
| Carbon Dioxide | 0-25% | 0.1% | Calculated |
| CO/CO ₂ Ratio | 0-0.999 | 0.001 | Calculated |
| Combustion Eff. | 0-100% | 0.1% | Calculated |
| Gas Leak Sensor | 100-10,000ppm (calibrated to methane) | | |
| * Bluetooth module optional | | | |

Pressure Measurement

| | |
|-------------------|---|
| Selectable Ranges | mbar, kPa and inH ₂ O |
| Range | -120 inH ₂ O to 120 inH ₂ O |
| Resolution | 0.001 inH ₂ O |
| Accuracy | +/- 0.5% fsd |

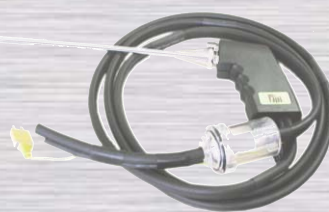
Temperature Measurement

| | |
|------------|--|
| Input Type | K-Type thermocouple |
| Range | -58°F to 1832°F (-50°C to 1000°C)* |
| Resolution | 1°F (1°C) |
| Accuracy | +/- (0.3% of rdg+2°F) or +/- (0.3% of rdg+1°C) |

A787 Soft Carrying Case



A770 Flue Probe



GK11M K-type thermocouple **A774 Silicone Tubing**



A776 Static Tip (2)



A603 Brass Hose Barb Fitting (2)



A611 Gas Valve Pressure Adapter



A806 Combustible Gas Leak Probe



A791 Adapter tubing





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Test the TPI Advantage

Using TPI analyzers to determine combustion efficiency at the time of equipment set up minimizes call backs. Analyzers can be used to verify to the home owner the value of service work by showing the increase in equipment efficiency after work is performed. Efficiency calculations can also be used to generate business by demonstrating the need to improve the efficiency of equipment or to show the benefit of purchasing new equipment with higher efficiency.

QUICK AND SIMPLE SET UP
All TPI analyzers feature quick and simple set up. Fast purge and the ability to perform fuel selection during start up enable tests to be performed quickly without requiring extra set-up time after initial start up. TPI analyzers also use the last selected fuel as the default setting. This feature prevents the need to perform fuel selection every time the analyzer is turned on.

Gas and Pressure Inlet Ports

Charger Socket and USB Port

Thermocouple Sockets

Infrared Window

Exhaust Port

Blue Soft Keys:
The function of these keys is shown on the bottom part of the display and changes depending on the menu selected.

Up Arrow Key:
Scrolls up and increases values in menus.

Down Arrow Key:
Scrolls down and decreases values in menus.

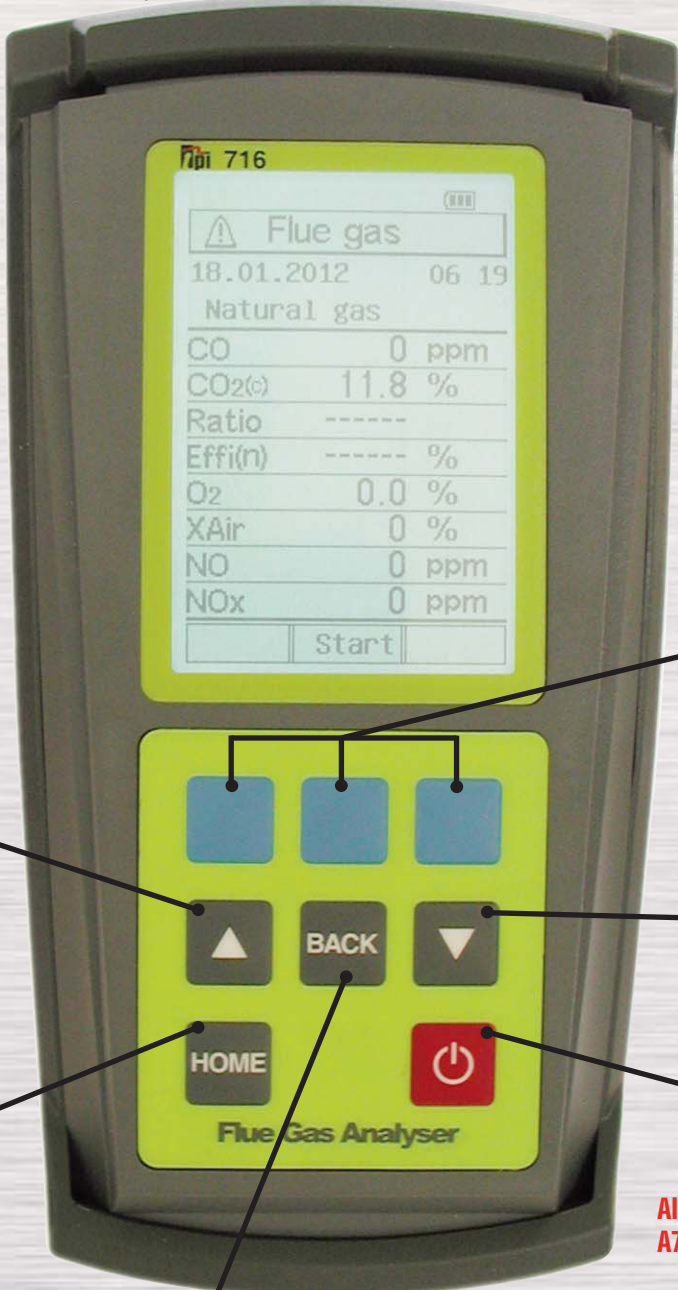
Home:
Returns the analyzer to the main menu.

On/Off Key:
Turns instrument On and Off

Back Key:
Returns the analyzer to a previous menu level.

All combustion analyzers come with A787 soft padded carrying case

200mm x 90mm x 60mm



| | |
|---------------------|---------|
| TPI 716 | |
| Flue gas | |
| 18.01.2012 | 06 19 |
| Natural gas | |
| CO | 0 ppm |
| CO ₂ (c) | 11.8 % |
| Ratio | ----- |
| Effi(n) | ----- % |
| O ₂ | 0.0 % |
| XAir | 0 % |
| NO | 0 ppm |
| NOx | 0 ppm |
| Start | |