716 Combustion Analyzer

716
Data Sheet
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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 performfuel selectionduring 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 toperform 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 / Batery 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 & inH2O
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/CO2 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 inH2O
Range	-120 inH2O to 120 inH2O
Resolution	0.001 inH2O
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

www.tpi-thevalueleader.com

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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.

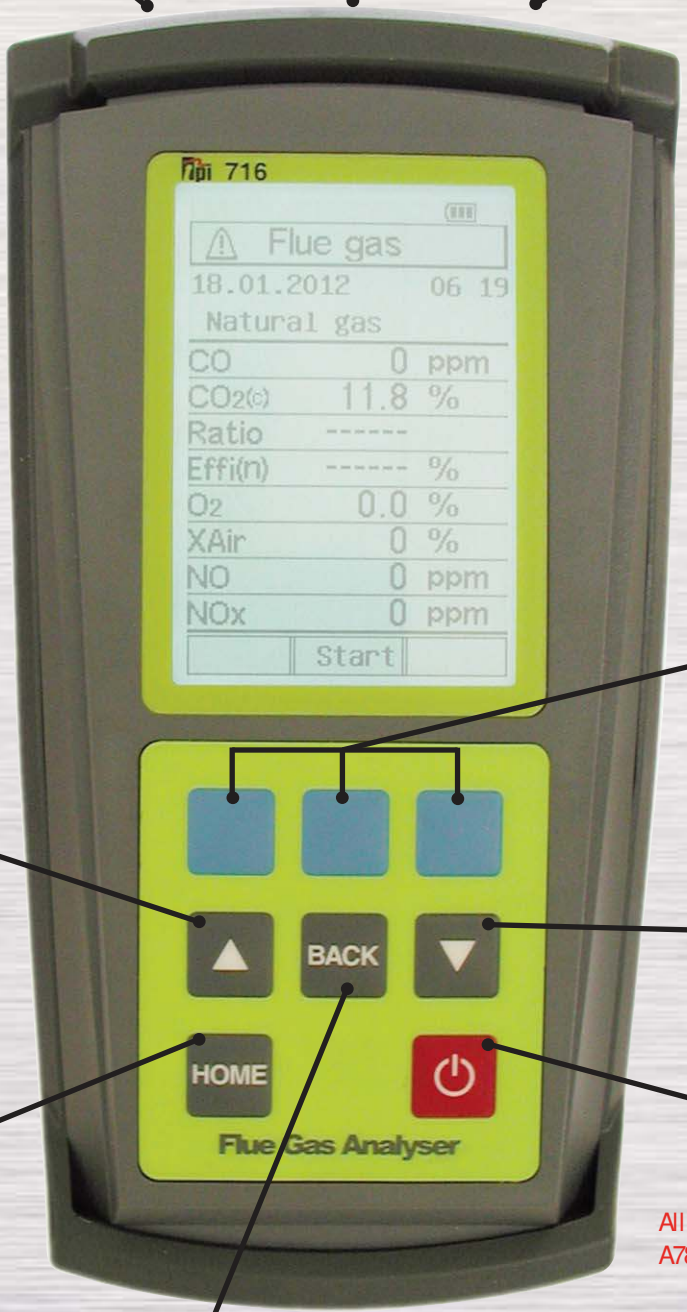
Gas and Pressure Inlet Ports

Charger Socket and USB Port

Thermocouple Sockets

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.



Exhaust Port

Infrared Window

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.

200mm x 90mm x 60mm

All combustion analyzers come with A787 soft padded carrying case