



716N Combustion Analyzer

716N
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
- Measure NO (Nitric Oxide), Calculate NO_x
- 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

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%
Nitric Oxide	0-5,000ppm	1 ppm	+/- 5 ppm to 5%
Carbon Dioxide	0-25%	0.1%	Calculated
NO _x	0-5250ppm	1 ppm	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)		

Pressure Measurement

Selectable Ranges mbar, kPa and inH₂O
 Range -120 inH₂O to 120 inH₂O
 Resolution 0.001 inH₂O
 Accuracy +/- 0.5% fsd

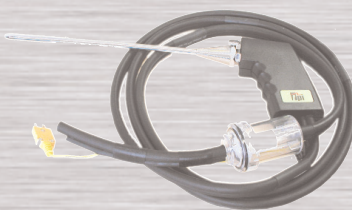
Temperature Measurement

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





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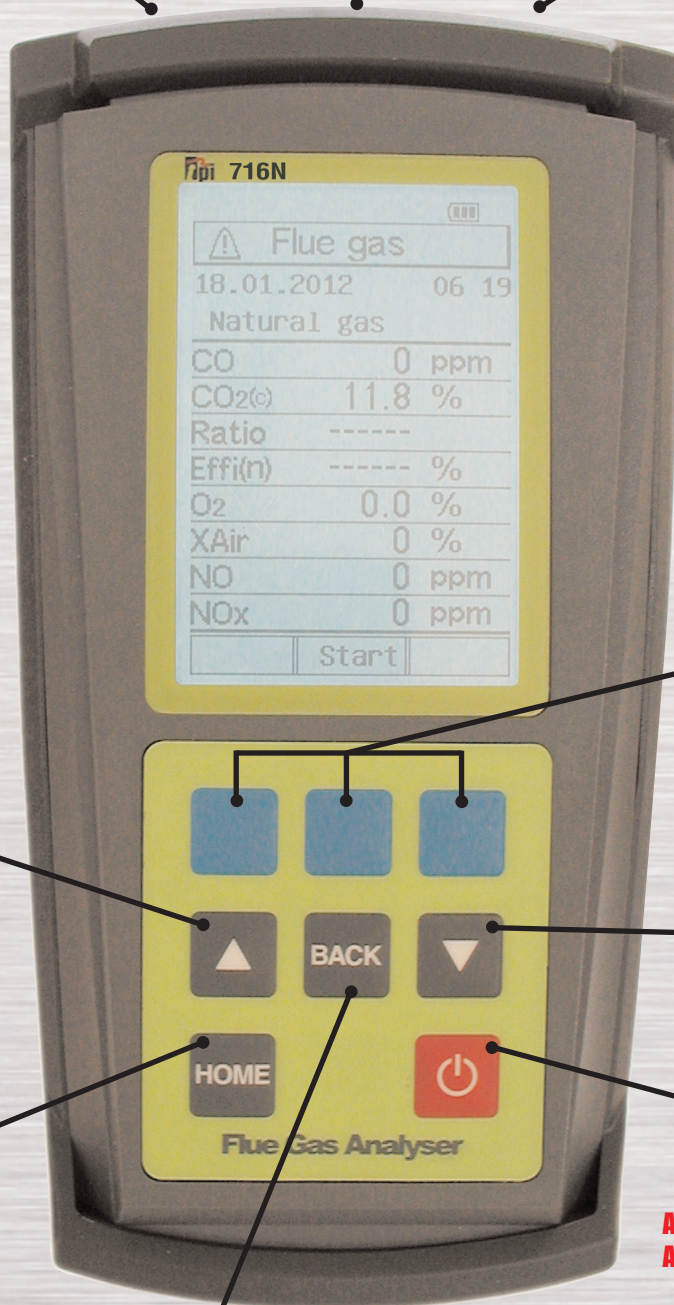
Using TPI analyzers to determine combustion efficiency at the time of equipment set up minimizes call backs. Analyzers can be used to verify to the home owner the value of service work by showing the increase in equipment efficiency after work is performed. Efficiency calculations can also be used to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

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

