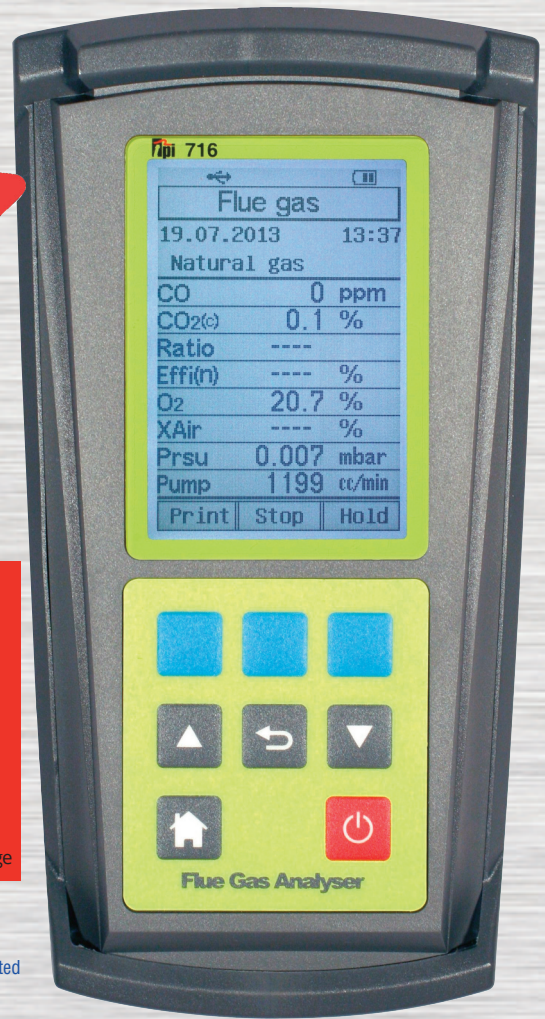




# 716 Combustion Flue Gas Analyser

- **Combustion Efficiency Analyser:**  
Measure O<sub>2</sub>, CO, and flue temperature.  
Calculate efficiency, excess air, CO<sub>2</sub> & (CO/CO<sub>2</sub>) Ratio.
- **CO Analyser:**  
Measure carbon monoxide in ambient air.
- **Differential Manometer:**  
+/- 150 mBar (0.01 mBar resolution)  
**Great for Tightness/Let By or Burner Pressure Testing**
- **Differential Thermometer:**  
Dual input K-Type thermocouple thermometer measures differential temperatures  
**Ideal for Measuring & Recording Flow & Return Temperatures**



## PLUS

- Timed Let/By & Tightness Test
- Timed CO Build-Up Room Test
- Large 4 or 8 Line Graphical Display
- Calibration Due Countdown on switch on
- Serial Number & Next Cal Due on Print-Outs
- USB cable & PC Software supplied as Standard
- Upgradeable to take NO<sub>x</sub> readings
- Upgradeable to take High CO readings

**LOW ANNUAL Re-Certification Costs**  
**£85.00** exc. VAT

Includes scheduled O<sub>2</sub> & CO sensor changes and return carriage

Contact TPI Europe Ltd for FULL Written Terms & Conditions  
Additional Annual Service Cost of £80.00 applies when NO sensor is fitted

Feature	Benefit
10,000 ppm CO Sensor	Longer Life & Quicker Recovery Times after Combustion Tests
In-Line Water Trap Bowl Filter	Prevent additional servicing costs due to damaged sensors caused by water ingress. <b>As used by British Gas across their entire fleet</b>
In-Line Mini Pump Protection Filter	Prevent additional servicing costs due to blocked pump caused by dust/dirt ingress
Multi-Fuel	Not limited to the type of jobs you can accept to work on
Soft Carry Case	Keeps your equipment & accessories together & secure in one handy place
Diagnostic Software	Save time & money by preventing the need to return the analyser for unnecessary repairs
Readings Output to (Optional) IR Printer	Keep permanent print-outs of recorded readings for your records & the customers
Menu Driven User Interface	Easier to navigate to the functions you require quickly
Company Details on Print Outs	Gives a more professional look to Print Outs when attached to Forms etc....
View Pressure & Gas at same time	Useful for more industrial applications where gas ratio
Quick Start	Purge period only applies when Combustion Readings are required

# Test the TPI Advantage

sales@tpieurope.com

Tel: 01293 530196

www.tpieurope.com



# 716 Combustion Flue Gas Analyser

## Carbon Monoxide (CO) Measurement

Range	0 to 10,000 ppm
Resolution	1 ppm
Accuracy	<20 ppm : $\pm 3$ ppm >100 ppm : $\pm 5\%$

## Carbon Monoxide (CO) High Measurement (if fitted)

Range	0 to 10%
Resolution	0.001%
Accuracy	> 10,000 ppm : $\pm 10\%$

## Oxygen (O<sub>2</sub>) Measurement

Range	0 to 25%
Resolution	0.1%
Accuracy	$\pm 0.3\%$

## Nitric Oxide (NO) Measurement (if fitted)

Range	0 to 5,000 ppm
Resolution	1ppm
Accuracy	<100ppm : $\pm 5$ ppm > 100ppm to <1,000 ppm : $\pm 5\%$ >1,000 ppm : $\pm 10\%$

## Carbon Dioxide (CO<sub>2</sub>)

Range	0 to 25%
Resolution	0.1%
Accuracy	Calculated

## Ratio (CO/CO<sub>2</sub>)

Range	0 to 0.999
Resolution	0.001
Accuracy	Calculated

## Gross/Net Efficiency

Range	0 to 100%
Resolution	0.1%

## Temperature Measurement

Range	-50° to 1300° C (-58° to 2372° F)
Resolution	1°C or F
Accuracy (K-type)	$\pm 0.3\%$ , $\pm 1^\circ\text{C}$ or $\pm 2^\circ\text{F}$

## Draft/Pressure Measurement

Selectable Ranges	mBar, psi, inH <sub>2</sub> O, mmH <sub>2</sub> O, kPa, hPa inHg, mmHG and mH <sub>2</sub> O
Range	-100 mBar to +100 mBar
Resolution	0.001mBar : (0 - 9.999 mBar) 0.01 mBar : (10 - 99.99 mBar)
Accuracy	< 5 mBar : $\pm 0.05$ mBar > 5 mBar : $\pm 1\%$ of reading

## Gas Leak Sniffer Probe (if connected)

Range	100 to 10,000 ppm (calibrated to methane)
-------	----------------------------------------------

## Instrument Specifications

Operating Temperature Range	-10° to 50°C
Battery	Rechargeable Ni-MH, >6 Hour Life
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 (Dry) Bagasse Wood Pellet
Display	Backlit Graphic LCD 4 or 8 Lines
Data Storage	100 sets multiple pages inc. Tightness inc. CO Build Up
Connectivity	USB as Standard Bluetooth (optional) Windows as std. Mobile Android App. (downloadable)
Time & Date	24 Hour Clock
Dimensions	200x90x60mm
Weight	500g
Conforms To:	EN50379 & BS7967

## Standard Accessories

Flue Temperature Probe "K" Type	A770
Construction	Pistol Grip - Stainless Shaft
Hose Length	2500 mm
Insertion Length	200 mm
Maximum Temp	800 °C
Accuracy	$\pm 0.3\%$ , $\pm 1^\circ\text{C}$
'K'-Type Temperature Air Probe	GK11M
In-Line Water Trap Bowl Filter Complete	A796
Spare In-Line Particle Filter	A796F
Mini Pump Protection Filter Assembly	A763
Battery Charger	A766
Protective Boot	A765
Soft Carrying Case	A768
Exhaust Spigot	A764
Pressure Adaptors (Pair)	A772
PC Software & USB Cable	A807
Instruction Manual	