



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 709R Combustion Analyser

Delivering test and measurement advantages for HVAC/R professionals worldwide

## Test the TPI advantage



### The Value Leader

www.tpieurope.com

### Test Products

#### International, Europe Ltd

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International Drive  
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HANDHELD OSCILLOSCOPES

DIGITAL MULTIMETERS

DIGITAL CLAMP-ON METERS

DMM & CLAMP-ON ACCESSORIES

CO ANALYSERS

COMBUSTION EFFICIENCY ANALYSERS

COMBUSTIBLE GAS DETECTORS

GAS DETECTION ACCESSORIES

DIGITAL MANOMETERS

REFRIGERANT LEAK DETECTORS

TEMPERATURE INSTRUMENTS

INFRARED NON-CONTACT THERMOMETERS

POCKET DIGITAL THERMOMETERS

DIGITAL VACUUM GAUGE

ELECTRICAL TESTERS

HUMIDITY TESTERS

AIRFLOW TESTERS

SERVICE & CALIBRATION

ACCESSORIES

Visit  
tpieurope.com  
or call  
01293-530196



## The TPI 709R Combustion Analyser Performs:

### 1) Combustion Analysis

- Check Net/Gross Efficiency
- Adjust CO, CO<sub>2</sub> & Ratio Values
- Check CO<sub>2</sub> & O<sub>2</sub> Values on Appliance

### 2) Differential Pressure

- Adjust Gas/Air Mixture
- Test Air Pressure Switch
- Use for Tightness Testing

### 3) Differential Temperature

- Flow & Return Adjustments
- Balance Radiators
- Check Thermostat & Water Temperatures

### 4) CO Detection

- Highlights CO Spillage
- Indicates areas of High CO Production

\* Warranty Subject to Annual Servicing by TPI Europe Ltd.

## TIME & MONEY SAVING FEATURES!!!!!!!!!!!!

- Long Life O<sub>2</sub> & CO Sensors.

Long Life Sensors means lower servicing costs during a 6 year period from new.

- Water Trap & Disc Filter as standard on the thermocouple gas sampling probe.

Complete protection from water ingress into 709R.

- In-line Pump Protection Filter as standard.

Stopping dust/dirt ingress into pump (the main cause of pump/analyser failure)

**See Overleaf for Accessories & Specifications**



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### Carbon Monoxide (CO) Measurement

Range	0 to 10,000 ppm
Resolution	1 ppm
Accuracy	±5 ppm or 5%, whichever is greater

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

Range	0 to 25%
Resolution	0.1%
Accuracy	±0.3%

### 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	-40° to 800° C (-40° to 1472° F)
Resolution	1°C or F
Accuracy (K-type)	±0.3%, ±1°C or ±2°F

### Draft/Pressure Measurement

Selectable Ranges	mBar, kPa, and inH <sub>2</sub> O
Ranges	-150 mBar to +150 mBar -15 kPa to +15 kPa -60 inH <sub>2</sub> O to +60 in H <sub>2</sub> O
Resolution	0.01mBar
Accuracy	±0/5% fsd

### Instrument Specifications

Operating Temperature Range	-10° to 50°C (14° to 122°F)
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
	OPT 1 = Bituminous Coal
	OPT 2 = Anthracite Coal
	OPT 3 = Coke
	OPT 4 = Butane
	OPT 5 = Wood (Dry)
	OPT 6 = Bagasse
Display	Backlit LCD
Data Storage	50 sets of readings
Time & Date	24 Hour Real Time Clock
Dimensions	200mm x 90mm x 60mm
Weight	500g
Exhaust	Safety Spigot
Conforms To:	BS7927 (and the draft BS7967)

### Standard Accessories

Flue Temperature Probe	A770
'K'-Type Temperature Air Probe	GK11M
In-Line Water Trap Bowl Filter Complete	A795
Mini Pump Protection Filter Assembly	A763
Battery Charger	A766
Protective Boot	A765
Soft Carrying Case	A768
Exhaust Spigot	A764



### Optional Accessories:-

A773 - Oil Filter



A788 - Smoke Test Pump



CK21M - Temperature Pipe Clamps



A746 - 10 Spare Paper Rolls for IR Printer  
Plus Various 'K' Type Thermocouple Probe



To learn more about the vast TPI Product Range visit [www.tpieurope.com](http://www.tpieurope.com)