



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

Longley House
International Drive
Southgate
Crawley

West Sussex
RH10 6AQ

Tel: +44 (0) 1293 530196

Fax: +44 (0) 1293 531870

contactus@tpieurope.com

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, CO₂ & Ratio Values
- Check CO₂ & O₂ 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

6 Year Limited* Warranty

Use with optional A740 Printer!

* Warranty Subject to Annual Servicing by TPI Europe Ltd.

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

- Long Life O₂ & 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 (O₂) Measurement

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

Carbon Dioxide (CO₂)

| | |
|------------|------------|
| Range | 0 to 25% |
| Resolution | 0.1% |
| Accuracy | Calculated |

Ratio (CO/CO₂)

| | |
|------------|------------|
| 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 ₂ O |
| Ranges | -150 mBar to +150 mBar -15 kPa to +15 kPa -60 inH ₂ O to +60 in H ₂ 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 = Anthrachite 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