

## INSTRUMENT

Parameter	Resolution	Accuracy	Range
<b>Temp Measurement</b>			
Flue Temperature	0.1° (C/F)	1.0 ° C $\pm$ 0.3% of reading	0 - 1100°C, 32 - 2140°F * Use high temperature probe for gases > 600°C/1112°F
Inlet Temperature	0.1° (C/F)	1.0 ° C $\pm$ 0.3% of reading	0 - 600°C 0-999°F
<b>Gas Measurement<sup>*1</sup></b>	<b>Resolution</b>	<b>Accuracy</b>	<b>Range</b>
Oxygen (O <sub>2</sub> ):	0.1%	-0.1% +0.2%	0-25%
Carbon Monoxide (CO):(standard:H compensated)	1ppm	$\pm$ 20ppm < 400ppm 5% of reading < 2000ppm $\pm$ 10% of reading >2000ppm	0 - 10,000ppm
Carbon Monoxide (CO): (high range)	0.01%	$\pm$ 5% of reading from 0.1% to 10%	0 - 10%
Nitric Oxide (NO): (standard)	1ppm	$\pm$ 5ppm < 100ppm $\pm$ 5% of reading >100ppm	0 - 5,000ppm
Nitric Oxide (NO) (low range)	1ppm	$\pm$ 2ppm < 30ppm $\pm$ 5ppm >30ppm	0 - 100ppm
Nitrogen Dioxide (NO <sub>2</sub> ):	1ppm	$\pm$ 5ppm<100ppm $\pm$ 10ppm < 500ppm $\pm$ 5% of reading > 500ppm	0 - 1,000ppm
Sulphur Dioxide (SO <sub>2</sub> ):	1ppm	$\pm$ 5ppm<100ppm $\pm$ 5% of reading>100ppm	0 - 5,000ppm
Pressure:	0.01mbar	$\pm$ 0.5% Full scale	0 - 150mbar
Carbon Dioxide (CO <sub>2</sub> ) <sup>*2</sup> :	0.1%	$\pm$ 0.3%	0 - Fuel Value
Efficiency <sup>*2</sup> :	0.1%	$\pm$ 1%	0-100%

\*1 using dry test gases at STP

\*2 calculated

NB: all ppm reading can be displayed in mg/m<sup>3</sup> and can be normalised

**HC104 Module Specification:**

Hydrocarbons:	Range:	0-2000ppm (Propane)
	Overrange:	10,000ppm
	Accuracy:	$\pm 5\%$ of reading and $\pm 12$ ppm vol.
	Resolution:	1 ppm.
CO2	Range:	0-20%
	Overrange:	50%
	Accuracy:	$\pm 5\%$ of reading and $\pm 0.1\%$ vol.
	Resolution:	0.1%
Response time T90		30 seconds
Warm up time		3 minutes
Operating temperature range		-10 to 55 deg C.
Operating humidity		5-85% non condensing
Power		supplied by KM9106.

**Conversion Factors from a Propane Calibration**

Propane	multiply by	1
Methane	multiply by	0.1
Hexane	multiply by	2

## HANDSET

Dimensions	220 mm long 120 mm high 50 mm wide
Keypad	16 tactile keys with sounder
Display	4 line LCD with backlight and contrast control

## EXTENSION CABLE

Specification:	8 pin DIN to 15 pin 'D' screened cable
Cable lengths:	5m Standard 10-20m-Optional

## PROBE

Choose from a range of probe options. See probe leaflet.

### Heated PROBE

KMHP1200: 1200mm insertion length, 8 mm diameter rated to 1000 ° C

## BATTERY

Type:	Lead acid rechargeable (12V, 2 AH)
Life:	8 hours from full charge
Charge time:	12 hours

## BATTERY CHARGER

Input:	110-120V AC/220-240V AC.
Output:	16V AC (RMS)@ 1 amp, 50-60 hz.

## PUMP

Flow rate:	2 Litres/Minute nominal 500 mbar static suction 1 litre/min extraction from 25kPa vacuum
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## PRINTER

16 character dot matrix.

## **RS232**

25 way plug connector,  
9600 Baud,  
No parity,  
8 Data bits,  
2 Stop bits.

QUINTOX	PC
Pin 2: TXD	Pin 2: TXD
Pin 3: RXD	Pin 3: RXD
Pin 4: RTS	Pin 4: RTS
Pin 5: CTS	Pin 5: CTS
Pin 7: Ground	Pin 7: Ground

## **AMBIENT OPERATING RANGE**

-10°C to + 55°C

< 85% RH non condensing

Storage: -10°C to 55°C

## **KMHL3000**

Power supply: 220V ac @ maximum 300 watts

## **KMHP1200**

Power supply: 220V ac @ maximum 100 watts

## **KMDM220**

Power supply: 220 Vac @ 5 amps peak.