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## MODEL 3030PM MICROFID ANALYSER SPECIFICATION

<p><b>Detector</b> Flame Ionisation Detector (FID) with cylindrical collector, flame-out sensor and igniter housed in self contained separately controlled heater assembly</p> <p><b>Ignition</b> Automatic fuel enrichment and re-ignition (after flame-out)</p> <p><b>Response</b> 95% of reading within 1.5 seconds</p> <p><b>Zero Drift</b> Less than 2% in 8 hours</p> <p><b>Detector Noise</b> 0.03ppm Propane</p> <p><b>Linearity</b> Better than 0.5% on standard ranges. Linearisation available for special ranges</p> <p><b>Temperature Effects</b> Ambient change from 10 to 30°C shows less than 1% FSD</p> <p><b>Oxygen Response</b> At 100ppm C<sub>3</sub>H<sub>8</sub> in air to Nitrogen, less than 2% (with He/H<sub>2</sub> fuel)</p> <p><b>Fuel</b> 60 ml per minute Hydrogen fuel 180 ml per minute He/H<sub>2</sub> fuel</p>	<p><b>Fuel Cylinders</b> One Litre water capacity, with up to 50 hours operation with hydrogen fuel</p> <p><b>Air</b> Detector uses 600 ml per min of hydrocarbon-free air, supplied by built in catalytic air purifier</p> <p><b>Sample System</b> 316 grade stainless steel</p> <p><b>Sample Filter</b> Removable 0.4 micron glass-fibre filter cartridge</p> <p><b>Sample Manifold Temperature</b> Adjustable to 200°C, stable to ±1%</p> <p><b>Display</b> Green 4 digit LED and bar graph</p> <p><b>Outputs</b> 0-10V DC, 4-20mA, RS232</p> <p><b>Flame-Out</b> SPDT contact is provided for flame-out</p> <p><b>Remote Range Change</b> Via RS232 or switched logic input</p> <p><b>Autocalibration</b> Controlled by microprocessor, RS232 or switched logic</p>	<p><b>Power</b> 240/220 Volts 50Hz or 110 Volts 50Hz consumption, 400Watts</p> <p><b>Heated Sample Line</b> Length 5 metres (other lengths optional) Power from 90 Watt per metre temperature controller at 4.5 volts per metre, 18 amps</p> <p><b>Heated Line Temperature Controller</b> Free standing with zero crossing control unit and isolation transformer. Primary and secondary circuits are fully fused for complete protection</p> <p><b>Safety</b> All high voltage/current circuits are shielded within the analyser. Flame sensor interlocks flame-out and shut off valves, isolating the fuel gas line. Power failure automatically isolates both fule and sample lines</p> <p><b>Options</b> Hydrogen or Hydrogen/Helium fuel special high ranges</p> <p><b>Dimensions</b> 500mm (l) x 210 (w) x 340 (h)</p> <p><b>Approximate Weight</b> 15Kg</p>
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Publication Ref:  
3030tec2.doc/datashts/sales/S:

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