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MODEL 8000M PARAMAGNETIC O₂ ANALYSER SPECIFICATION

<p>Detector Servo controlled Dumb-bell Paramagnetic Detector. Sample Dew Point must be at least 10°C lower than local ambient temperature</p> <p>Detector Noise Less than $\pm 0.005\%$ O₂ Range time constants can be configured to suit application sample noise. Longer time constants will reduce noise at the expense of response time</p> <p>Flow Sensitivity Less than 1% change in reading from 1 to 3l/min into ambient pressure exhaust</p> <p>Accuracy and Repeatability Repeatability $\pm 0.01\%$ O₂ Zero Stability $\pm 0.002\%$/hour Tilt Less than $\pm 0.01\%$ O₂/degree External Magnetic Effect – A mass of soft magnetic material placed anywhere on the case will cause a change in reading of less than $\pm 0.1\%$ O₂</p> <p>Ambient Temperature Effect Zero: Less than $\pm 0.005\%$ O₂/°C from 5°C to 40°C. Span: Less than $\pm 0.0015\%$ O₂/°C from 5°C to 40°C. Chart Recorder Output: Add $\pm 0.02\%$ of range per °C</p> <p>Response 5s (5% to 95%) at 2 l/min</p>	<p>Display 240 x 64 pixel LCD display with backlight shows concentration, units and gas in large clear characters; vertical bar graph of chart output with alarm markers; sample flow indication; range, control and message areas. Bottom of display defines top row key functions. Additional pages provide full analyser status and parameter set facilities</p> <p>Remote Control All functions by 'AK' Protocol using RS232 port. Range, gas path, detector mode, calibration and standby by contact closure or TTL/CMOS logic levels</p> <p>Power Dual voltage 115 VAC or 230 VAC $\pm 15\%$ switchable on the rear panel. 200 VA maximum during warm-up</p> <p>Environment Ambient Temperature 5°C to 40°C Relative Humidity to 95% non-condensing</p> <p>Linearity Better than $\pm 0.1\%$ O₂ Inlet Pressures Sample: -5 psi to 15 psi maximum (7 psi typical for 2 l/min)</p> <p>Flow Rate 0.5 – 3 l/min (2 l/min nominal)</p>	<p>Options Internal sample pump</p> <p>Dimensions 19" rack mounting 3U high. (133.5mm) Depth behind mounting face 525mm Protrusion in front of mounting face 45mm Weight approx. 12Kg</p> <p>Plumbing Sample, span, and zero inlets 1/4" tube fittings. Bypass outlet 3/8" fittings</p> <p>Services 100% N₂ for zero calibration. O₂ in N₂ diluent for span calibration (or use ambient air if value is known)</p> <p>Outputs 0-10VDC and isolated 4-20mA analogue outputs of displayed range. Range analogue output of 1 to 3VDC. Logic outputs of range, gas path, detector mode, calibration status, and readiness. Two logic alarm outputs. Volt-free relay contacts for analyser fault indication. Output for pump control adaptor. Pump automatically controlled from the front panel</p> <p>Ranges 0-5%, 0-10%, 0-25%, plus auto range</p>
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