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## Teledyne MIXCHEK He/O<sub>2</sub> Analyzer

The Teledyne MIXCHEK is a CE approved portable instrument designed to accurately monitor the composition of both oxygen and helium. The case is environmentally sealed. It has a +/- 1% accuracy across the entire 0-100% analysis range for both oxygen and helium.

The MIXCHEK analyzes the oxygen and helium concentrations in a gas mixture using a dedicated two-channel sensor network sharing a common sample system. The gas to be monitored is drawn into the analyzer and passed to the sensor network. A high output micro-fuel cell is used to determine the oxygen concentration of the gas mixture. The output of the micro-fuel cell is fed to the display and read out as percent oxygen.

The sample gas is then directed to a thermal conductivity sensor. This sensor provides a signal that is proportional to the differences in conductivities between the components of the gas mixture. A microprocessor compares the sensor output to data contained in an onboard chip and converts the raw data into a linearized signal that is sent to the Helium LCD display.

### Standard Features

- Very easy operation
- Lightweight
- Constant flow operation
- Compact, durable, o-ring sealed, case
- Two independent easy to read LCD displays for He and O<sub>2</sub>
- Low power consumption - up to 150 operational hours on four C-cell batteries
- Convenient front panel ON-OFF power switch with Battery Test
- Front panel mounted Span and Zero calibration controls
- Linearized He channel output over the entire analysis range
- Microprocessor controlled electronics

- Long-life, low temperature solid state thermal conductivity sensor for accurate helium analysis
- Rapid response, long life(36month)oxygen sensor
- Convenient span calibration control for calibrating the oxygen cell
- Rugged water resistant case
- Low pressure power inflator hose sampling adapter
- Very easy battery and oxygen cell replacement

### Options/Replacement Parts

- AC/DC adapter for 120 VAC .
- AC/DC adapter for universal power (100-240 VAC) with four interchangeable int'l AC power plugs (CE rated)
- Oxygen cell

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