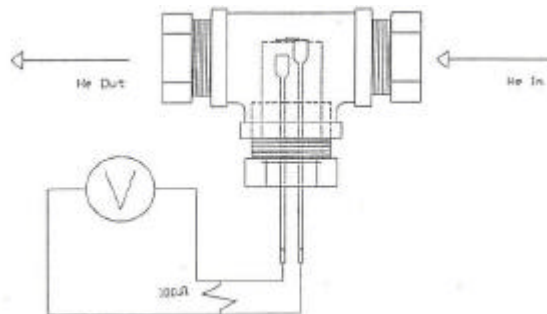


Quantum Helium Purity Meter Q11.4-005-FCMP

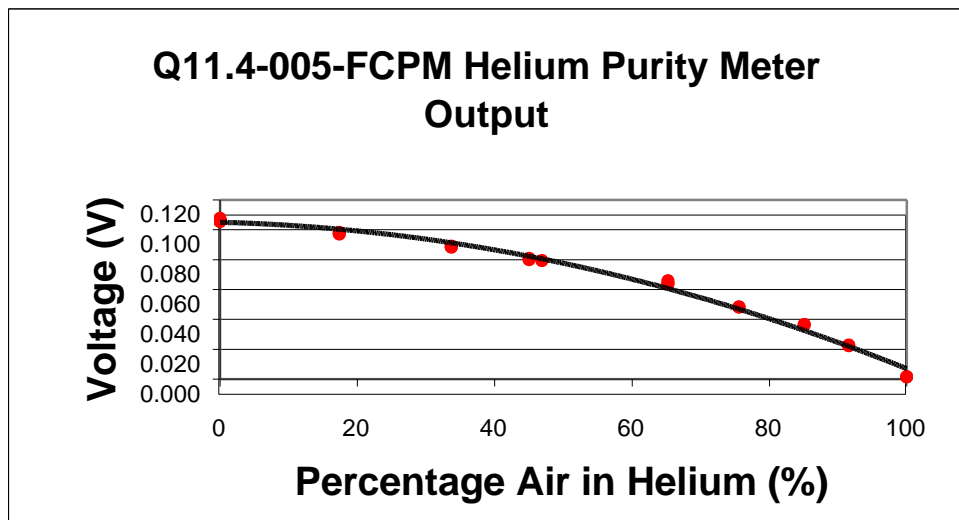
APPLICATION: Measures oxygen, which typically relates to contamination of helium by air

SPECIFICATIONS:

- Concentration: 0-100% Helium in air
- Pressure Range: Atmospheric (1 bara) to 1.4 bara
- Accuracy: $\pm 1\%$ Full Scale
- Response Time: 90% in less than 15 seconds
- Operating Temperature: 59-104 degF (5-25C)
- Minimum/Maximum Storage Temperature: 5-122 degF (-15-50C)
- Optimal Storage Temperature: 41-77 degF (5-25C)
- Humidity: 0-95% non-condensing
- Life span: 9-12 months in open air
- Replacement Parts: Q11.FCMP-FC-Replacement Fuel Cell



PRINCIPLES OF OPERATION: The inline meter allows for helium flow past a cartridge type oxygen sensor fuel cell. This fuel cell converts oxygen concentration by volume directly into a low level electrical current through oxidization of nickel. Unlike most oxygen sensors, the Quantum Technology helium purity meter uses a capillary tube as the diffusion interface; this provides for a more durable sensor without the need for the pressure and temperature compensation associated with membrane type cells. These conditions have yielded results with greater accuracy and precision in measurement.



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