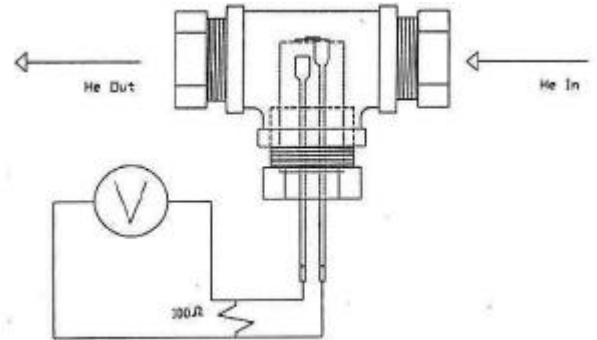


Quantum Helium Purity Meter Q11.4-005-FCPM

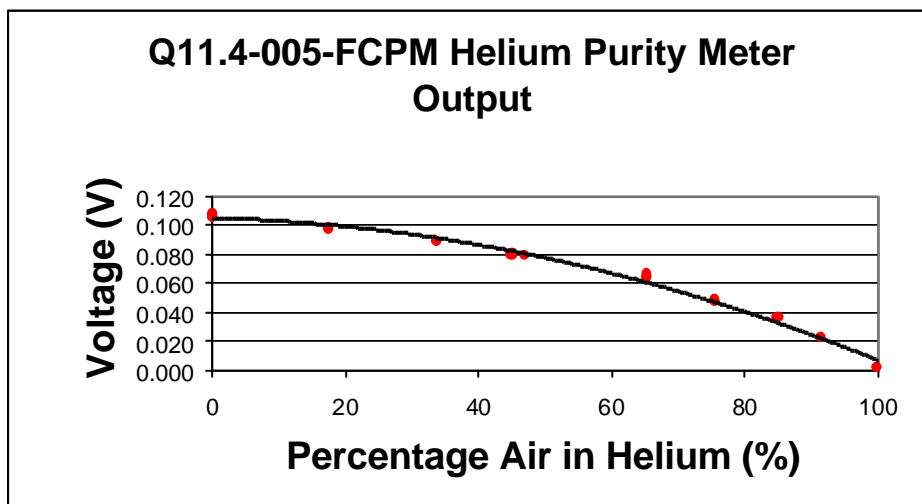
APPLICATION: Measures oxygen, which typically relates to contamination of helium by air

SPECIFICATIONS:

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



QUANTUM TECHNOLOGY CORP.

3650 Wesbrook Mall (BC Research & Innovation Complex), Vancouver, BC V6S 2L2 CANADA

Tel: +1-604-222-5539 Fax: +1-604-677-5826

sales@quantum-technology.com

www.quantum-technology.com

KOREA: c/o ASK Corp. Tel: +82-31-451-5600 Fax: +82-31-451-5605 ask@askcorp.co.kr

SWITZERLAND: c/o Meili-Kryotech Tel: +41-(0)81-661-7161 Fax: +41-(0)81-661-1724

USA: Blaine, WA Tel: 1-888-271-9466 Fax: 1-888-711-5222 (Toll-free from USA)