

Helium mass spectrometric leak detectors MC-4

The leak detector is a highly sensitive magnetic mass spectrometer configured to register a sample gas (helium) flow. The leakage is determined by the flow of helium entering the test volume during vacuum tests, or flowing out of the test volume at an overpressure in it.

DESIGNED FOR

measuring helium flows during non-destructive testing of tightness.



Characteristics	MC-4
Range of indications at the leak detector input, Pa·m ³ /s	from 5·10 ⁻¹³ to 1·10 ⁻³
Measurement range at the leak detector input, Pa·m ³ /s	from 7·10 ⁻¹¹ to 1·10 ⁻⁴
Range of indications when working with a probe method, Pa·m ³ /s	from 1·10 ⁻⁹ to 1
Limits of permissible relative measurement error, % from the measured value (where Q _{llm} – lower limit of measurement, Q _{mfv} – measured flow value, Pa·m ³ /s)	±(0,50 + Q _{llm} /Q _{mfv})·100
Overall dimensions, mm - primary pump in the leak detector housing - primary pump on a transport trolley	605x400x401 545x645x1100
Weight, kg	85
AC powered: - volume, V - frequency, Hz	220±22 50
Power consumption, V·A	800
Operating conditions: - ambient temperature, °C - relative humidity, % - atmospheric pressure of ambient air, kPa	from +10 to +35 80 from 86 to 106,7
Average service life, years	10