

Q200 SF₆ Trace Gas Leak Detector

The high specification Q200 is the ultimate in instrumentation for high sensitivity trace gas leak detection. It is designed to locate and quantify leaks in a wide range of applications, such as in industry, military and laboratory.

- ❖ Portable and easy to use
- ❖ Responds to SF₆, refrigerant R12 and other electron capturing compounds
- ❖ Fast response and recovery
- ❖ Locates position of leaks
- ❖ Quantifies the leak rate
- ❖ Displays leak rate or concentration
- ❖ RS232 serial printer interface
- ❖ 0-2 volt analogue output
- ❖ User adjustable audible alarm level
- ❖ Measurement store facility
- ❖ Simple user calibration procedure
- ❖ In-built fault diagnosis

The Q200 is a portable instrument, supplied in a carrying case holding the power supply and electronics, a small cylinder of compressed argon gas, and the main display panel. The detector is mounted in a hand-held probe, attached to the main unit by a 10 ft (3.5 meter) umbilical connection. A display panel is mounted in the hand probe enabling the operator to monitor measurements even when working in difficult locations.

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Q200 with optional calibration kit.

The instrument is extremely easy to use, and provides highly accurate leak rate measurements. The response is almost instantaneous and the detector recovers quickly, even after exposure to high concentrations of trace gas.

Where products are manufactured or maintained to a high leak tight specification the QUALICHEK 200 is an invaluable aid in ensuring quality.

Q200 facilities

- ❖ Adjustable audible alarm, activated when user set leak rate is exceeded
- ❖ Factory calibrated for SF₆ and refrigerant R12. Calibration for other electron capturing gases optional
- ❖ Simple user recalibration facility
- ❖ Diagnostic menu identifies fault conditions



Highest performance

The Q200 is equipped with one of the most sensitive gas detection systems ever developed, the Electron Capture Detector (ECD) which is highly selective, responding only to compounds that exhibit a high affinity for electrons.

Sulphur hexafluoride (SF₆) satisfies these requirements and, due to its strong electron capture character, can be detected in extremely low concentrations using an ECD. For these reasons SF₆ and the ECD are the ideal combination for many leak detection applications.

Wide Application

The Q200 has been used for process and quality assurance on a broad range of products which include:

- High voltage switchgear
- Fume hood testing and glove box containment checks (Approved for ASHRAE 110-2016)
- Leaks in military equipment, eg missiles, mines and torpedoes
- Testing fire extinguishers
- Checking hazardous materials storage vessels
- Building ventilation rate studies

In some instances the product itself is pressurised with a gas suitable for leak detection, e.g. refrigeration systems (halogenated hydrocarbons) and high voltage switchgear (SF₆). In others, trace gas is inserted into the item prior to the test being performed, at a concentration (often as low as 1%) selected to provide the sensitivity needed.

For applications which involve the checking of multiple potential leak sites, the instrument can store up to 100 results; these can be printed later, annotated with date and time of the measurement.

Specifications

Model	Q200
Description	Ultra-high sensitivity trace gas leak detector for accurately locating and quantifying leaks 1 x 10 ⁻⁸ mL/s SF ₆
Leak Rate	[With optional capillary inlet, 1 x 10 ⁻¹⁰ mL/s SF ₆]
Concentration Sensitivity	0.01 ppm
Dimensions (h X W X d)	Case: 43 x 40 x 23 cm (17 X 16 X 9 in)
Weight	Hand held probe: 0.9 Kg (2.0 lbs.)
Output	RS232 interface port
Sensor	Electron capture
Display	Alpha numeric VFD
Response	1 sec (85% of reading)
Detects	SF ₆ and other electron capturing compounds Calibrated leaks Argon gas filling valve assembly
Operating Time from Battery	Above 20 hours
Manufacturing Standards	To ISO 9001:2000 Certified to CE requirements

***Due to a program of continuous development, specifications may be changed notice**

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FOR ELECTRIC POWER AND GIS

FOR ASHRAE 110-2016 TESTING