

AQM 1

ISOFLURANE VAPOUR DETECTOR

DETECTION OF ISOFLURANE, AT VERY LOW LEVELS

AQM 1 ISOFLURANE detector

2018

ISOFLURANE detection in laboratories and hospitals.

AQM 1 - ISOFLURANE vapour monitor is a new instrument, combining the functions of gas detection, gas monitoring and gas alarm in one instrument. The instrument has airflow intake to draw Isoflurane from ambient air.

ISOFLURANE used as anesthesia for small animals.

Q.: To whom did we develop this instrument

A.: AQM 1 is specially designed for laboratories working with ISOFLURANE.

Q.: What is the unique quality of this instrument

A.: ISOFLURANE is generally difficult to detect at very low level <100 PPM. ISOFLURANE can be detected by smell, when level is above 1000 PPM. However recommended working conditions in the laboratories is 10 PPM - 100 PPM. Smell is therefore not a useful indicator. ISOFLURANE is used for anesthesia of small animals, experimental use and medical research. AQM 1 detects ISOFLURANE at level > 10PPM.

AQM 1

This instrument works as an independent vapour monitor. When connected to a PC it can also operate as a frontend datalogger and data monitor. The instrument is designed with a very large analog meter, and gives high visual reading. Easy to follow the trend of vapour level in ambient air - and easy to read.

Environmental regulations for laboratories in Denmark and Northern countries, advise that laboratory workers should not be exposed to low levels of Isoflurane >10 ppm.

Workers in laboratories, are however often exposed to continuous low level Isoflurane, escaping from the system. During operations and experimental use, handling small animals in laboratories.

Characteristics: AQM 1

- Analog monitor - data logging,
- ISOFLURANE, vapour alarm.
- Very fast reaction, when exposed to gas leak.
- Air flow - monitor. Can be remote controlled,
- Very low level detection >10 ppm - <100 ppm,
- AQM1 can be adapted for special purposes, and different gasses,
- Small footprint 14 x 22cm. Can easily find a place on laboratory table,
- Reasonable price,





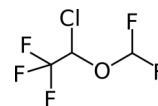
ISOFLURANE

anesthesia of small animals, in clinical research.

Most laboratories in the medical sector use ISOFLURANE for anesthesia of small animals. ISOFLURANE has the advantage that the gas in small dose of 2 - 5% will bring the animals to sleep, and shortly after stop of gas, the animal wake up, without damage.

ISOFLURANE is always administered with a vaporizer in conjunction with air and/or pure oxygen. Often nitrous oxide is also used.

Molar mass of ISOFLURANE is 184,5 g/mol, and is heavier than air.



Formula; C₃H₂ClF₅O

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CON.DA AQM 1 Isoflurane vapour detector, monitor ISOFLURANE in a linear analogue reading from >0 ppm - <100ppm. Highly efficient, compared to other similar gas detectors. The instrument combine efficient software with creative hardware and is capable to register very early evaporation of ISOFLURANE >10ppm. Integrated in the instrument is a large analogue meter, giving the laboratory workers clear visual indication, if ISOFLURANE vapour increase in the laboratory. The instrument has an integrated alarm, and will activate a audible signal if a preset alarm level is surpassed. The alarm level can be set individually and match the aircondition and airflow in the laboratory.

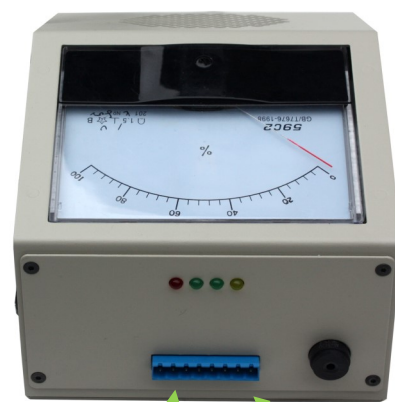
Analog meter

Most instruments today are designed with digital displays, and much information can be gained designing instruments with digital display. With AQM 1 we integrated a very large analog meter in the instrument, similar to a speedometer in the car. It is indeed possible to design the carpanel with digital display, nevertheless most cars come with analog meter. The main information for laboratory is to observe the trend - if volume of Isoflurane is increasing in laboratory. For continuous monitoring, the analog meter gives a very clear visual indication, even young and not so trained laboratory workers will find it easy to learn and understand.

Vapour detection

AQM 1 is developed for low detection of ISOFLURANE >10PPM

Besides ISOFLURANE, this instrument also has capability to monitor other types of gas. At CON.DA we calibrate AQM 1 on the basis of reference gas. In situations where customers are exposed to other gas that need monitoring, the factory should be consulted to verify and test what gasses AQM 1 can be calibrated to monitor, within the required range.



RS 422 connection

Data - transmission

contact

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