



QCMagic epsilonpi

- ✧ is a precision QCM
- ✧ works in gas or liquid
- ✧ measures frequency and quality-factor
- ✧ has an optimized static and flow cell
- ✧ can be controlled remotely
- ✧ has a multi-platform software

◆ The instrument

QCMagic embeds a precision quartz crystal oscillator and a sophisticated electronics for the detection of frequency and quality factor of the quartz.

It works both in gas and liquid environments by a companion Plexiglass or Teflon flow-measuring chamber.

QCMagic shows measured data on a OLED display and send them through the Ethernet connection to the host computer running our data acquisition package.

◆ Features

QCMagic works at 5 or 6MHz. Our supplied quartzes have a 14mm standard diameter with HC6/U holder. They are mounted but unbonded to allow easy removal from they holding spring contacts for chemical functionalizations and/or surface modifications.

Frequency resolution is $\pm 0.05\text{Hz}$, quality factor-related voltage precision is 0.8 mV and the data acquisition rate is 10 samples/s.

◆ Peculiarities

The QCMagic software is multi-platform (i.e. it can be installed onto different operating systems) and allows remote control from several hosts, being Ethernet-based.

QCMagic has two optional outputs respectively proportional to quartz frequency and dissipation factor, which allows painless integration with third-party instruments.

