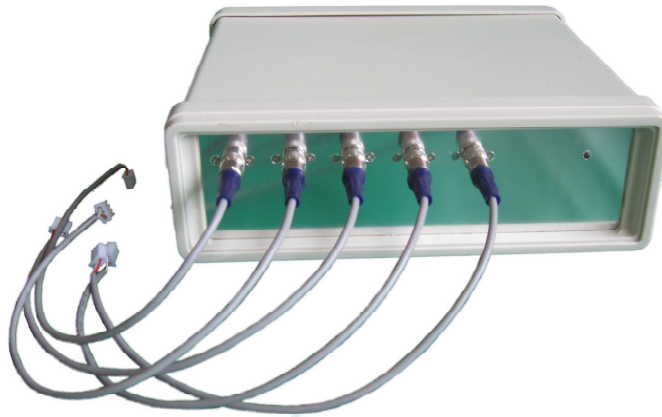


## **FORTIMING CORPORATION**

***QCM Sensors Division***

### **Model FTQCM-AC500**

**Quartz Crystal Microbalance Five Channel Array Controller**



The FTQCM-AC500 is designed for direct real-time measurement of frequency signal from a QCM array sensing system. This controller consists of oscillation circuit and frequency counter, and it can simultaneously monitor five oscillating quartz crystals. In general, one channel is served as a reference, and other four channels can be as assays. It can either provide the direct frequency read-out from any channel or display the frequency difference between any assay channel and the reference channel.

### **Features**

- Single Channel or Multiple Channel Simultaneous Measurement
- Crystal Frequency Range: 1MHz to 35MHz
- On-line Real-time Monitoring Capability
- Frequency Resolution: 0.2Hz (10MHz crystal)
- Software for Data Gathering, Manipulation, Graphic Presentation through the RS-232 Interface to a Window Based PC.

### **Technical Specifications:**

- Frequency Range: 1MHz to 35MHz
- Frequency Accuracy: 0.2Hz (10MHz crystal)
- Operating Temperature Range: -10°C to 50°C
- Output Interface: RS-232
- Supply Voltage: 110 / 220V AC
- Power: < 10W
- Weight: 1.56 kg
- Dimensions: 20 x 18 x 6 cm

## FORTIMING CORPORATION

*QCM Sensors Division*

### Others:

- **Front Panel**  
Five Signal Connections to QCM Crystals and Indicator Light



- **Rear Panel**  
RS-232 Serial Interface Connector and Power Connection

