QMB6 *Dual Thickness Monitor with integrated oscillator*

Features

- **2 independent measurement channels**
- **High frequency resolution of up to 0.01 Hz**
- **ModBUS protocol for ease of integration**
- **4 communication interface options: RS232/RS485, USB or Ethernet (PoE)**
- **Includes low noise integrated oscillator**
- **Unmatched low-cost compact unit performance**
- **All connecting cables, power supply and Windows Software included**
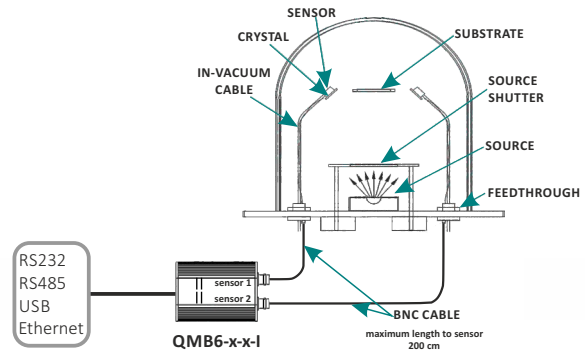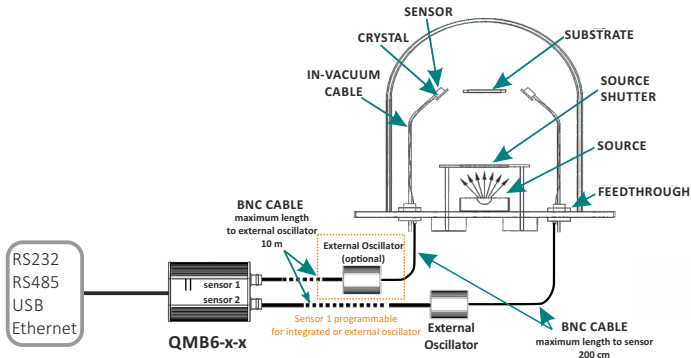
The QMB6 quartz measurement box combines simplicity of operation with unrivalled accuracy in a compact form factor, delivering precise measurements at up to 0.01Hz frequency resolution for 2 sensor channels.

Quartz sensors can be either directly connected utilizing the integrated low noise oscillator or linked via external oscillators when the QMB6 is installed at larger distance from the sensor.

The QMB6 is available with 4 hardware communication standards RS232/485, USB and LAN/Ethernet with PoE option. The latter simplifies installation in an ethernet infrastructure network.
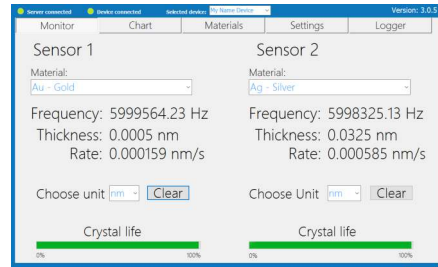
Monitoring and data logging can be performed by either using the supplied Windows software or by integration into a host environment utilizing the industry standard ModBUS protocol.
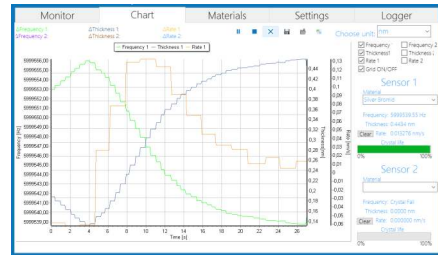
Connection examples

SPECIFICATIONS

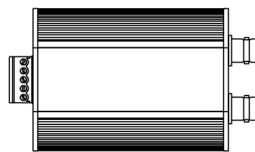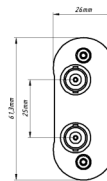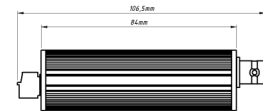|	
Frequency Resolution	0.1 Hz at 10 readings/sec (standard resolution)
	0.01 Hz at 10 readings/sec (high resolution version)
Sampling frequency	0.5 to 10 Hz
Quartz oscillator type	6 MHz
Reference frequency stability	0.5 ppm
Sensor input	2 x BNC female
Interface (chosen at time of order)	RS232, RS485, USB, Ethernet (PoE)
Protocol	ModBUS
Supply voltage	12...24 V DC for RS232/RS485
	5 V DC for USB
	48 V DC for LAN/Ethernet, PoE IEEE 802.3af
Supply current	max 500 mA for both channels
Operation temperature	15 °C to 40 °C
Dimensions	106.5 mm x 61.3 mm x 26 mm (RS232/RS485 Version)
	96.4 mm x 61.3 mm x 26 mm (USB Version)
	116.4 mm x 61.3 mm x 26 mm (Ethernet Version)
Weight	~0.2 kg
Windows Software (included)	Provides datalogging functions for up to 253 units, Ethernet option extends number of units to unlimited; all service operations, including IP address setting, factory parameter restore and firmware upgrade

QMB6 Software Sensor Monitor

QMB6 Software Chart

ORDERING INFORMATION

QMB6 Dual Thickness Monitor   BT-QMB6-☐-☐-☐

Resolution	
Standard resolution	S
High resolution	H

Interface	
RS232	2
RS485	4
USB	U
Ethernet (PoE)	E

Oscillator support	
1x integrated/ext.+ 1x ext.	
2x integrated oscillators	I

BT-QM-EO	Passive external oscillator incl. 10 cm BNC cable
BT-QM-MBS	Mounting Bracket Set for QMB6
BT-QM-EO-MBS	Mounting Bracket Set for External Oscillator

Scope of Supply:
- QMB6 unit
- Power supply / interfacing cables depending on version
  - -2: 12 V DC supply + RS232 cable 3m
  - -4: 12 V DC supply
  - -U: USB A to USB B cable 3m
  - -E: Power injector supply + RJ45 cable 3m
- 1x 10cm BNC cable
- 1x 6 MHz Test Quartz

QMB6 external dimensions (RS232 Version)

External Oscillator QMB6-EO

QMB6-EO-MBS Mounting Brackets