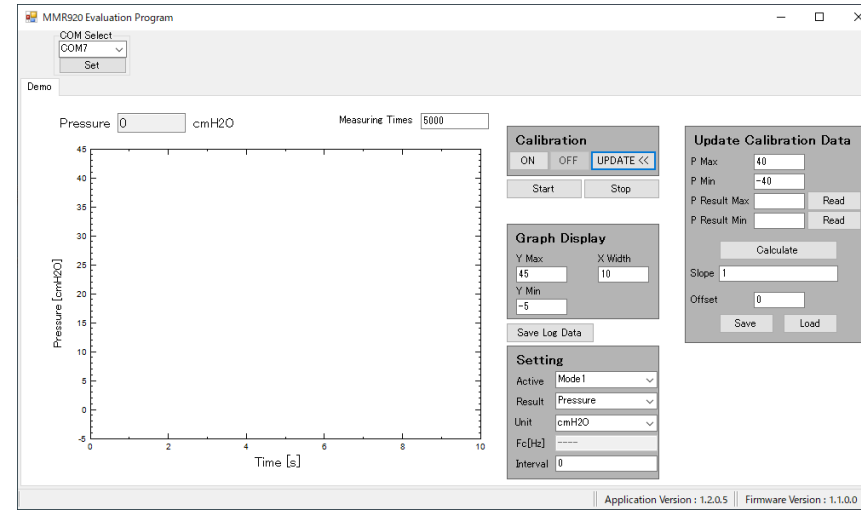
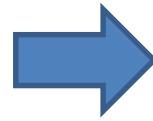
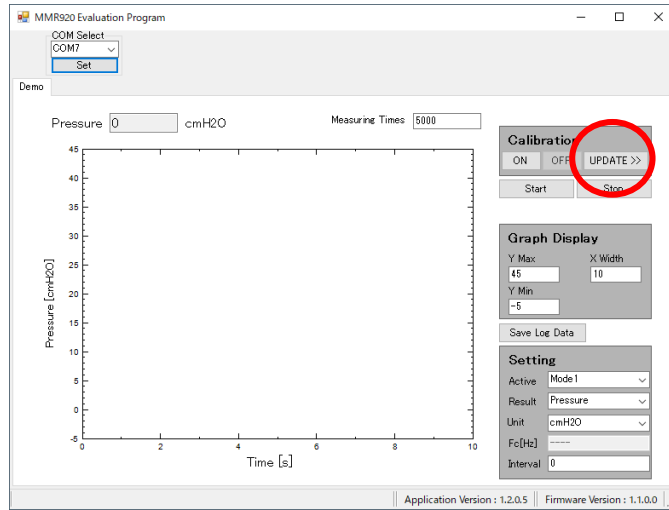


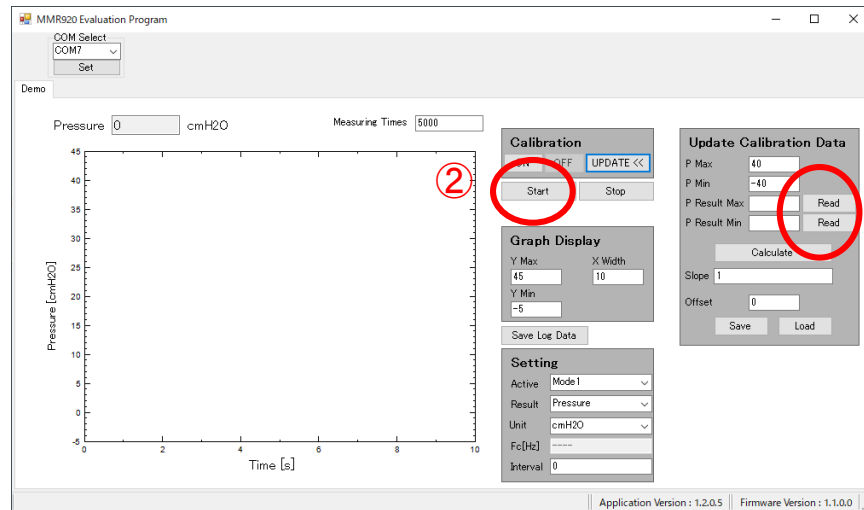
MMR920 Calibration Operation Manual Rev.0

2022.03.28
MITSUMI ELECTRIC CO., LTD.

1. Updating Calibration Data

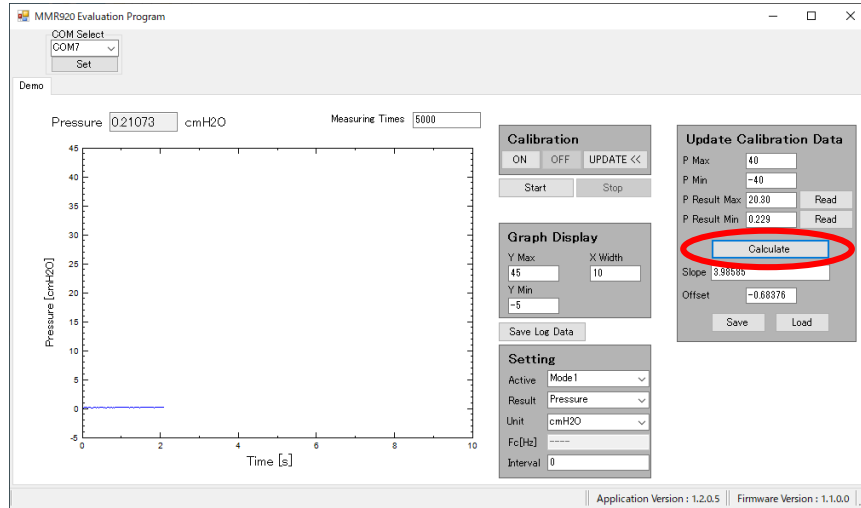


2. Setting P Result Max / Min



- ① Apply Max (Min) pressure.
- ② Start measurement.
- ③ Read pressure measurement value at Max (Min) pressure.
Press the Read button when the pressure is stable.
It is also possible to enter manually.

3. Calculating Slope

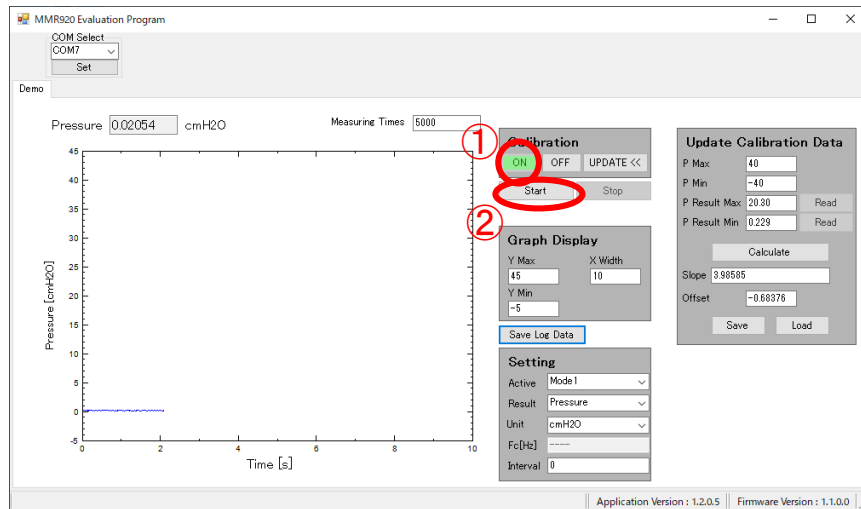


[Equation]

$$Slope = (P_Max - P_Min) / (P_Result_Max - P_Result_Min)$$

$$Offset = P_Min - P_Result_Min \times Slope$$

4. Enable Calibration



- ① Calibration ON
- ② Start measurement.

[Equation]

$$P_Result_Calib = P_Result \times Slope + Offset$$

5. Log Format

[Calibration ON]

```
2022/04/01 8:55:30
Model: MTM MMR920
Active Mode: Mode4
Result Mode: Pressure
Cutoff Frequency[Hz]: ----
Interval: 0
Calibration: ON
Slope: 1.0648
Offset: -0.12259
Measured Time[s], Sensor Value[cmH2O]
0.02224,17.78883672
0.02539,17.796993088
0.02854,17.809238288
0.03168,17.82642416
0.03484,17.836241616
0.03798,17.844451224
0.04115,17.855312184
0.04429,17.865672688
```

Calibrated data

[Calibration OFF]

```
2022/04/01 8:56:54
Model: MTM MMR920
Active Mode: Mode4
Result Mode: Pressure
Cutoff Frequency[Hz]: ----
Interval: 0
Calibration: OFF
Slope: -
Offset: -
Measured Time[s], Sensor Value[cmH2O]
0.02223,9.17322
0.02538,9.17094
0.02855,9.17155
0.03169,9.17325
0.03483,9.17357
0.03798,9.16951
0.04114,9.1688
0.04428,9.16749
```

Raw data