

ETC
**PMM330 Differential
Pressure Transmitter**



etc-tech PMM330 Differential Pressure Transmitter Instruction Manual

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ETC

etc-tech PMM330 Differential Pressure Transmitter



Product Information

Specifications

- Model: etc-tech PMM330
- Type: Differential Pressure Transmitter (Indoor)
- Manufacturer: etc-tech

Product Usage Instructions

Security Considerations

Please read the specifications carefully before using the product and keep the manual for timely reference. Ensure that qualified personnel perform installation and wiring by safety standards. Do not operate the product in explosive areas or situations that may affect human life. Always disconnect the power supply before performing any wiring or installation to prevent damage to the equipment. Use crimp-type terminals and comply with local indoor wiring codes and electrical installation rules.

Dimension

Refer to the user manual for detailed dimensions of the pressure differential pressure transmitter.

Connection Diagram

Consult the user manual for the connection diagram of the transmitter.

Analog Output Setting

Users can choose between 4-20 mA or 0-10 V for analog output by adjusting the jumper settings. Remember to power cycle the device after changing the jumper placement.

Autozero

The autozero button allows users to set the current pressure to zero point. Press the button for about 5 seconds until LED2 turns on, then release it to set the new zero point. To restore factory default settings, press the button for about 10 seconds until LED2 turns on and off.

RS-485 and Modbus

The PMM330 integrates an RS-485 interface for digital communication using Modbus protocol for connection to PLC, HMI, and PC. Refer to the attached file on the website for Modbus protocol information. The device settings and data logging functions can be accessed through user software available for download on the website.

FAQ

Q: Can this product be used in explosive areas?

A: No, this product cannot be used in any explosion-proof area.

Q: How to set the analog output of the transmitter?

A: The user can choose between 4-20 mA or 0-10 V for analog output by placing the jumper in the corresponding places as shown in the manual.

Q: How to reset the device to factory default settings?

A: Press the autozero button for about 10 seconds until LED2 turns on and off to restore the factory default settings.

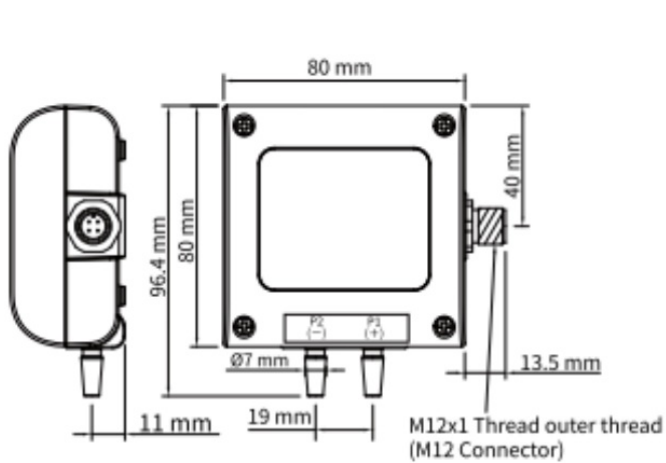
Security considerations

Please read this Specification carefully, before use of this, and keep the manual properly, for timely reference.
Solemn Statement: This product can not be used for any explosion-proof area. Do not use this product in a situation where human life may be affected. etc-tech will not bear any responsibility for the results produced by the operators

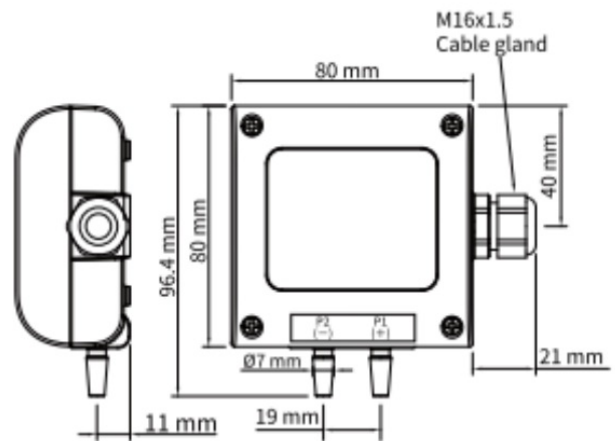
Warning!

- Installation and wiring must be performed by qualified personnel by all applicable safety standards.
- This product must be operated under the operating conditions specified in the manual to prevent equipment damage.
- Please use the product under ordinary pressure, or it will cause safety problems.
- This product must be operated under the operating conditions specified in this manual to prevent equipment damage.
- This product must be operated under all atmospheric conditions and equipment damage.
- To prevent product damage, always disconnect the power supply from the product before performing any wiring and installation.
- All wiring must comply with local codes of indoor wiring and electrical installation rules.
- Please use the crimp-type terminal.
- To prevent personal injury, do not touch the moving part of the product in operation.
- It may cause high high-humidity atmosphere during the product was breakdown. Please take a safety strategy.

Dimension

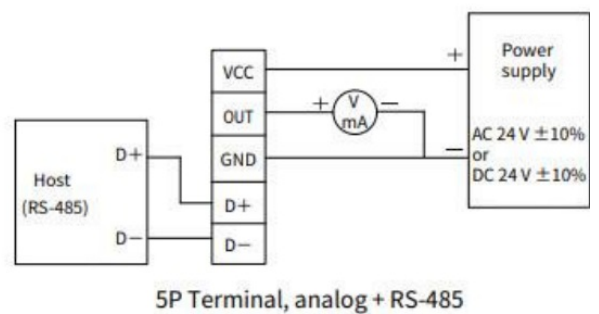
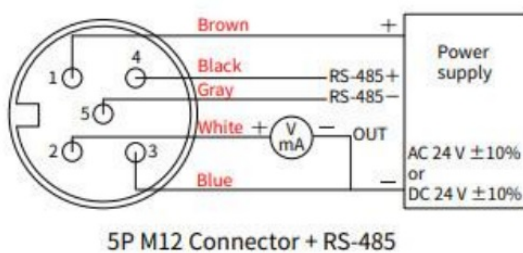
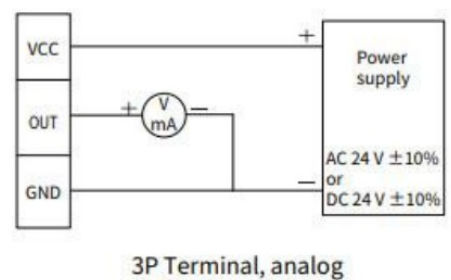
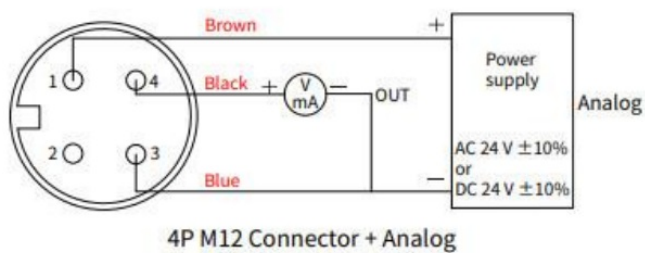


Indoor — M type



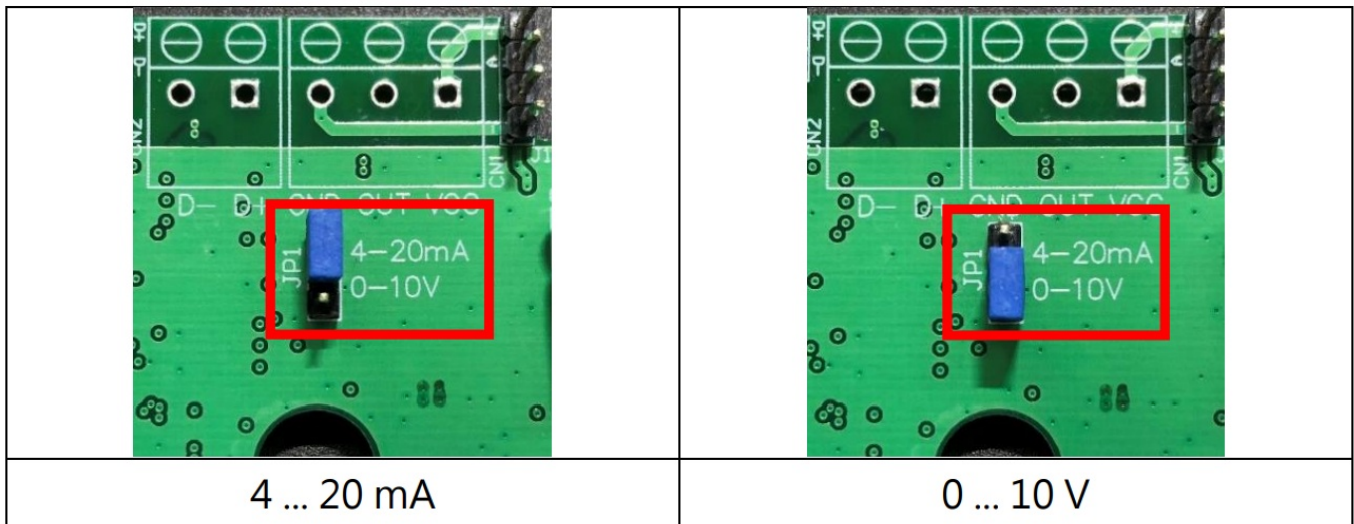
Indoor — N type

Connection Diagram



Analog Output setting

Users can choose 4 ... 20 mA or 0 ... 10 V for analog output by placing the g jumper in the corresponding places shown in the table below.



The user must do a power cycle after changing the jumper placement.

Autozero

This button allows the user to set the current pressure to zero point. It is required to press the button for about 5 seconds, and the user can see LED2 will turn on. Then user can release this button and will see the LED2 flashing, and the new zero point has been set. This button also allows the user to restore the factory default setting. It is required to press the button for about 10 seconds, the user will first see LED2 turn on and then off. The user can release this button and will see the LED2 flashing, and the new zero point has been set.



RS-485 and Modbus

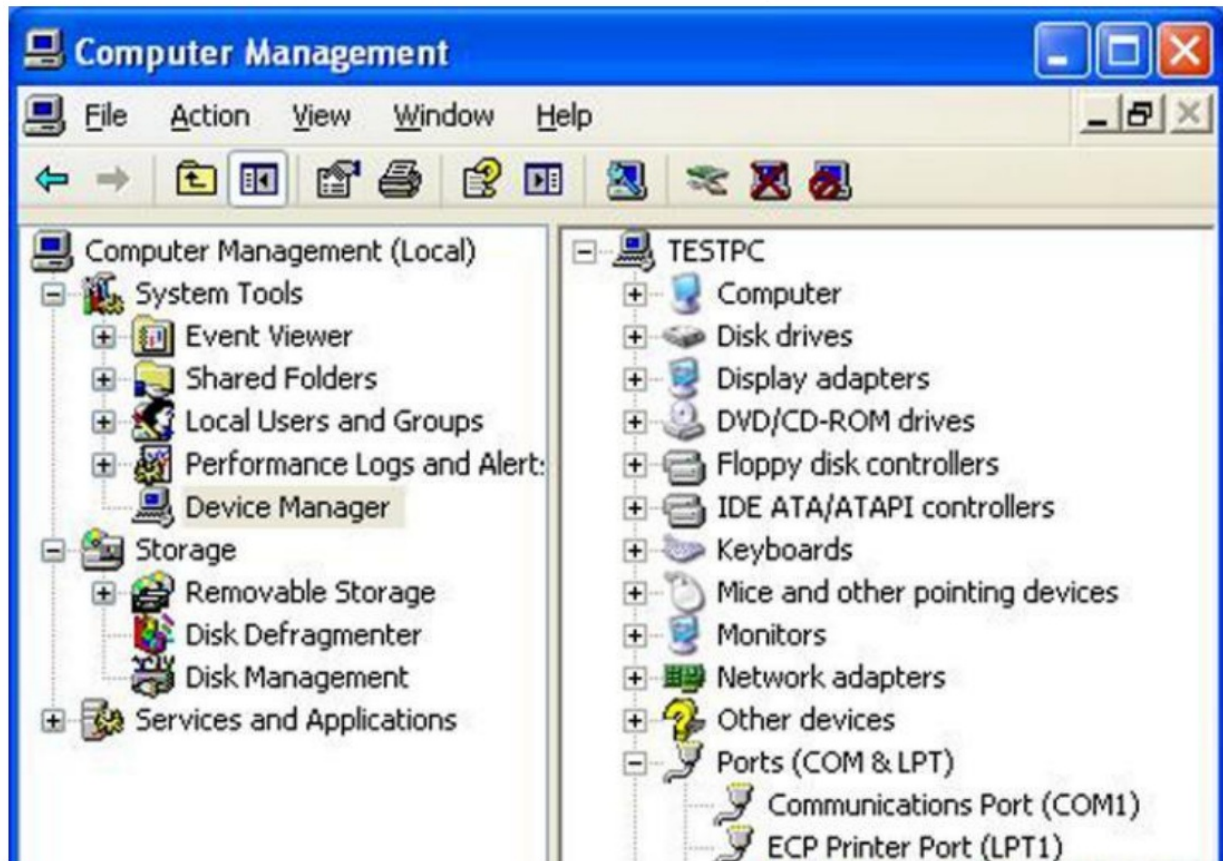
PMD330 integrates an RS-485 interface for digital communication as an option feature. Based on Modbus protocol makes the general convenience on PLC, HMI, and PC] connection. For Modbus protocol information please attach the file from the website to download. Besides the PLC, and HMI application, the user software provides the device setting and data logging function, it also can be free to download from the website Technical Data

- Max. network size: 32 transmitters
- Communication: with COM-Port (serial interface) of PC
- Max. network expansion: 1200m (3937ft) total length at 9600 baud
- Transmission rate: 9600, 19200, 38400, 57600, 115200 Baud
- Parity: None, Even, Odd
- Data length: 8-bit

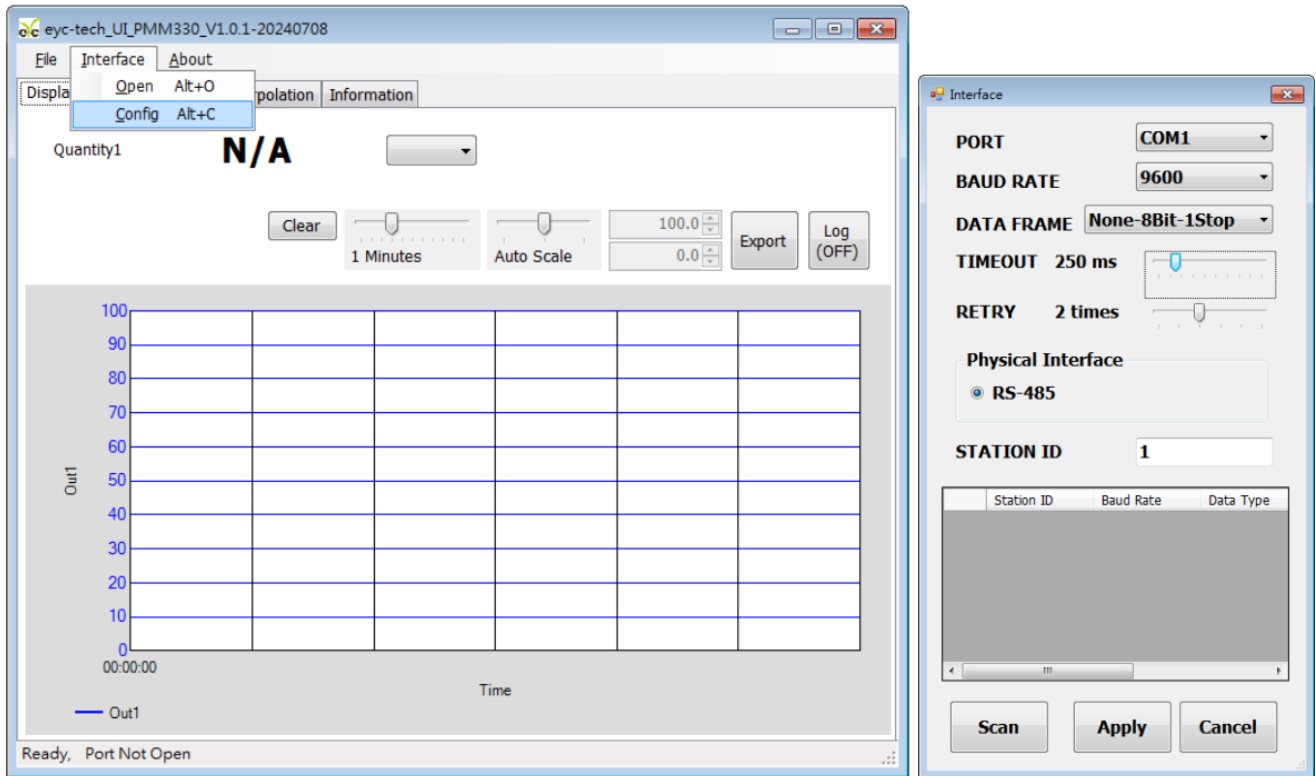
- Stop bit: 1 or 2 bit
- Factory default Station address = 1, Data format= 9600, N81

User Software

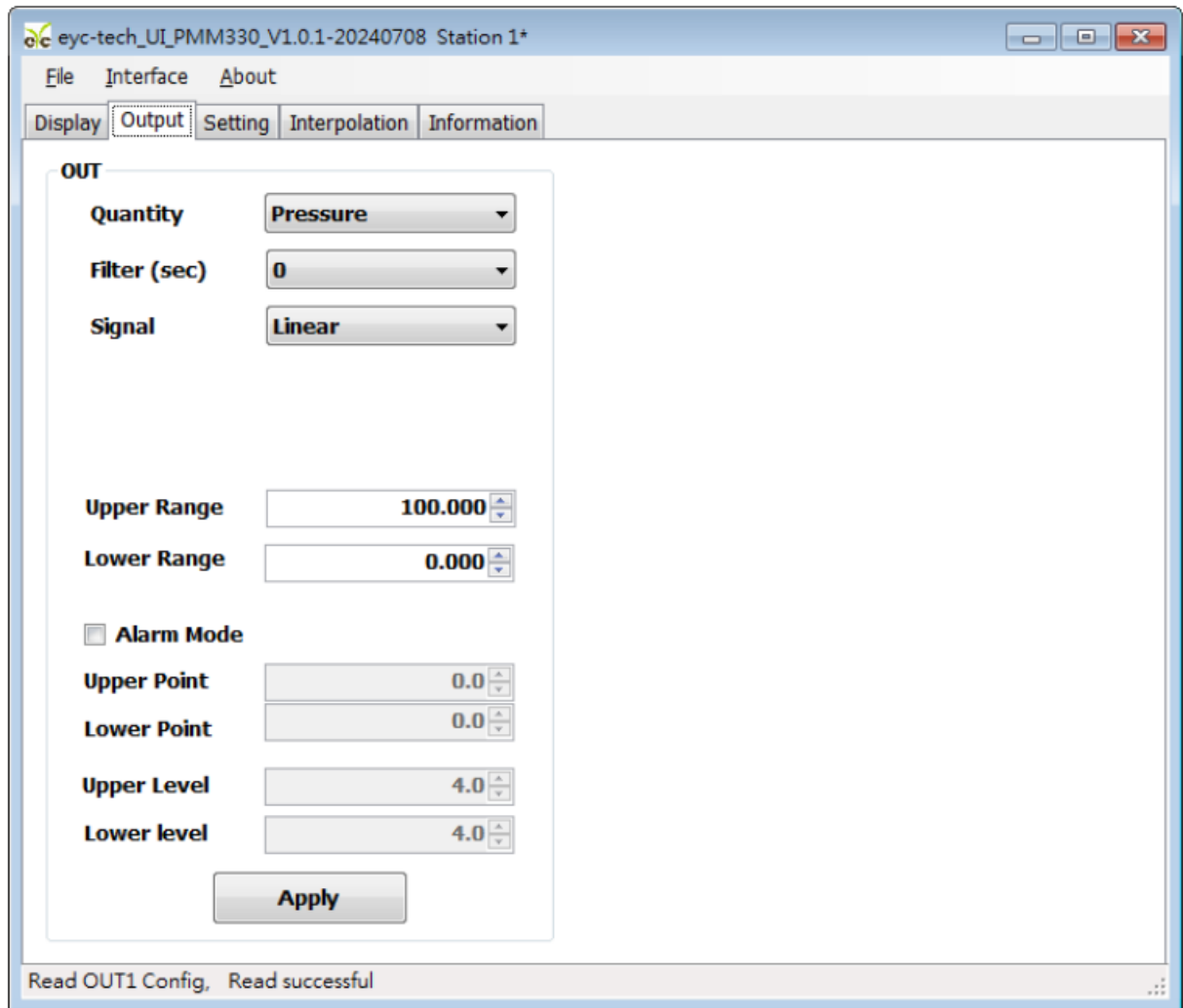
- Hardware connection: Connect the PMM330 to the PC by USB to the RS-485 converter.
- Check the COM port number from Computer Management



- Open the PMM33_UI, go to function "Interface", click item "Config" and then set COM port, BAUD rate, and data format, Press "Scan" bottom for scan devices, and "Apply" for connection.



- Setting on Analog Output
 - Quantity: Pressure
 - Filter: 0, 5, 10, 20, 25 seconds
 - Signal: Linear / Square root extraction- LCD shows the $\sqrt{}$ mark on the left-low side and the red LED of LDEP flashes slowly while the square root extracted function is active.
 - The range for Upper and Lower



- Setting on RS-485 and offset adjustment
 - Station ID: 1~247
 - Baud Rate: 9600 / 19200 / 38400 / 57600 / 115200
 - Data Frame: None-8Bit-1Stop / None-8Bit-2Stop / Even-8Bit-1Stop / Even-8Bit-2Stop / Odd-8Bit-1Stop / Odd-8Bit-2Stop /
 - Pressure Offset adjustment, unit available in inH2O only
 - Multiple measuring values, from 0.01 to 100

eyc-tech_UI_PMM330_V1.0.1-20240708 Station 1*

File Interface About

Display Output **Setting** Interpolation Information

Modbus Protocol

Station ID

Baud Rate

Data Frame

Apply

Adjustment

Pressure Offset (Pa)

Multiple

Apply

Adjustment

Temperature(°C)

Relative Humidity(%)

Air Pressure(mBar)

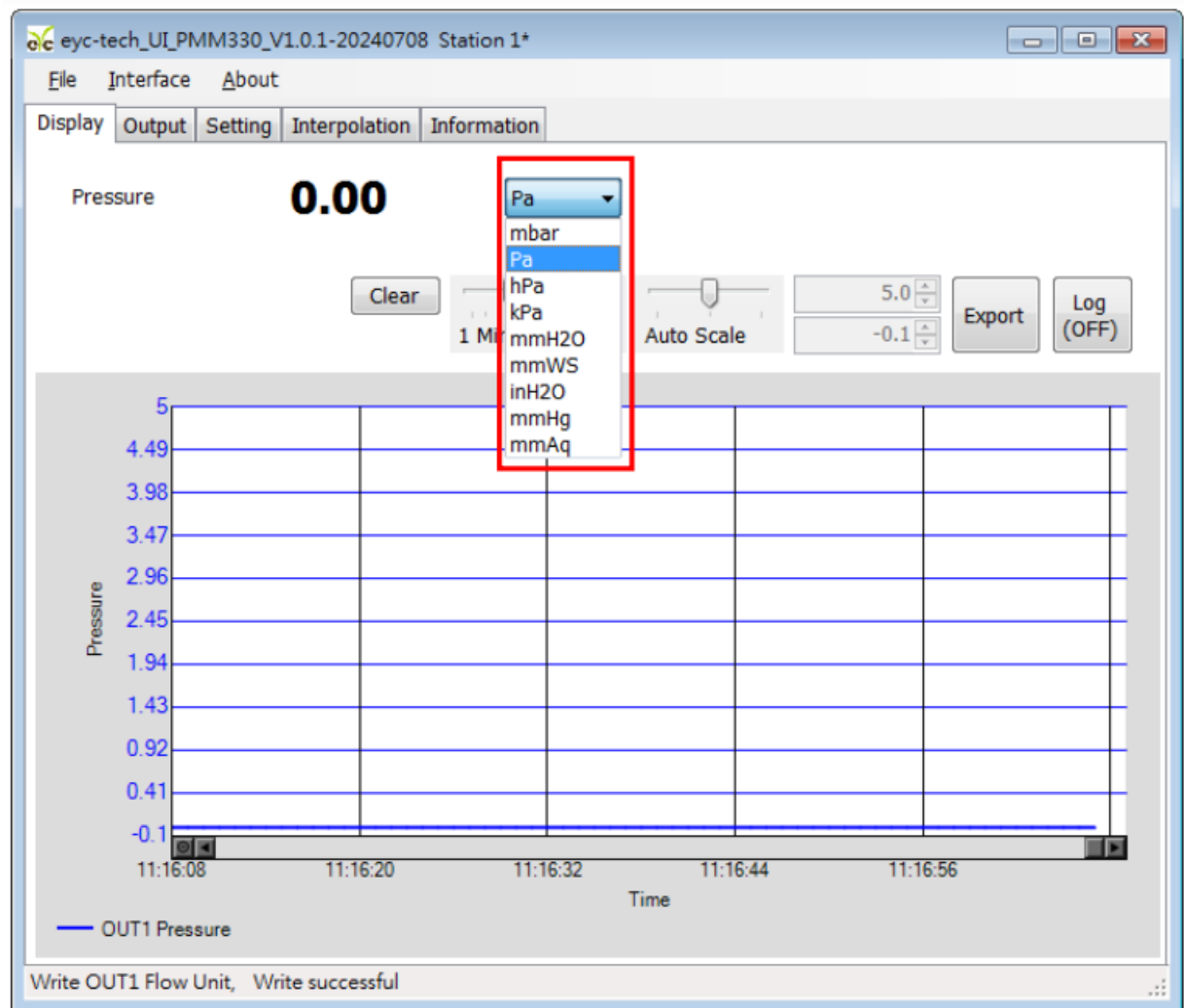
K Coefficient

Area (m²)

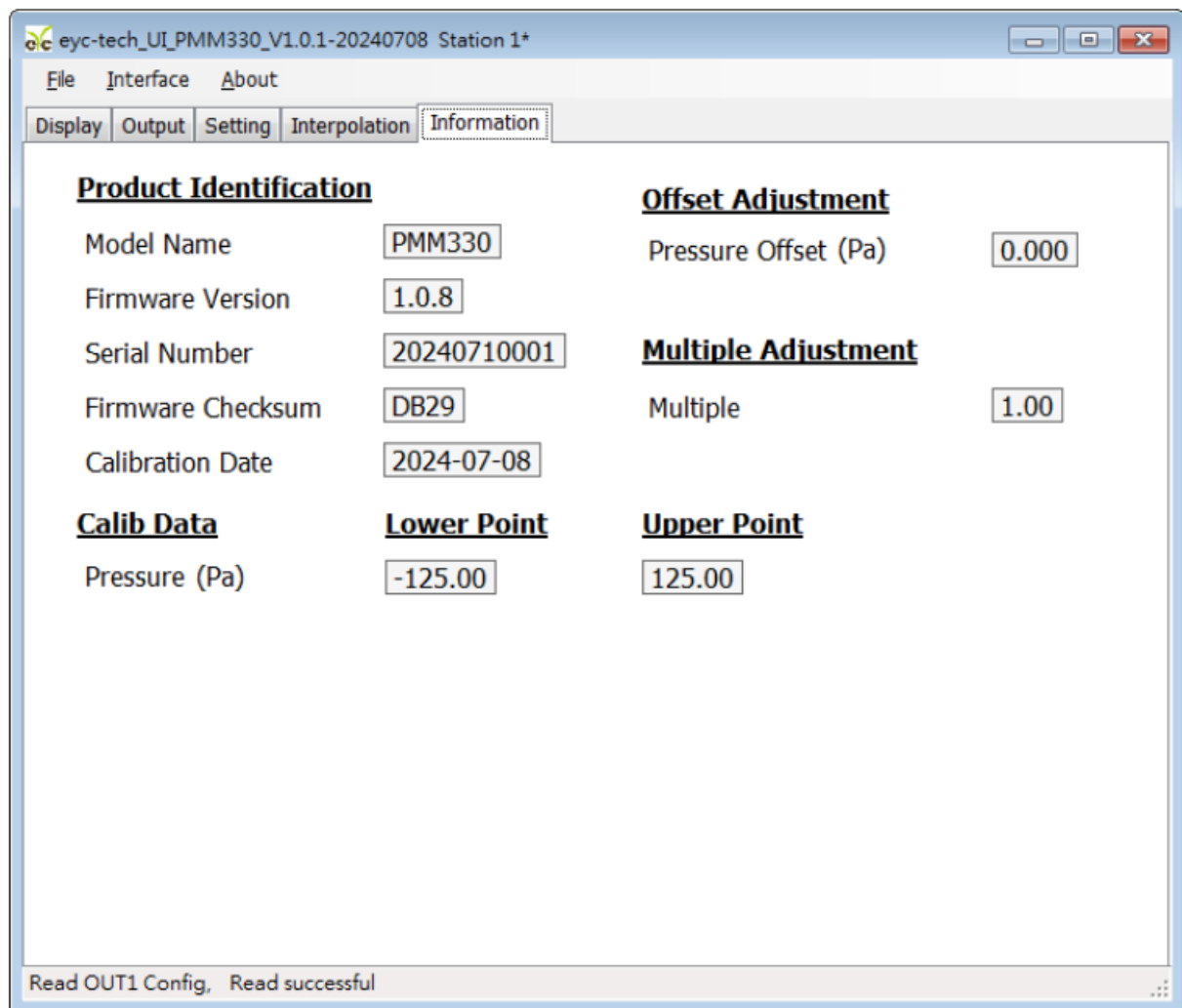
Apply

Read OUT1 Config, Read successful

- Unit setting, data display, and data logging
 - Pressure unit: mbar, Pa, hPa, kPa, mmH2O, mmWS, inH2O, mmHg
 - Export file: *.CSV



- Transmitter information



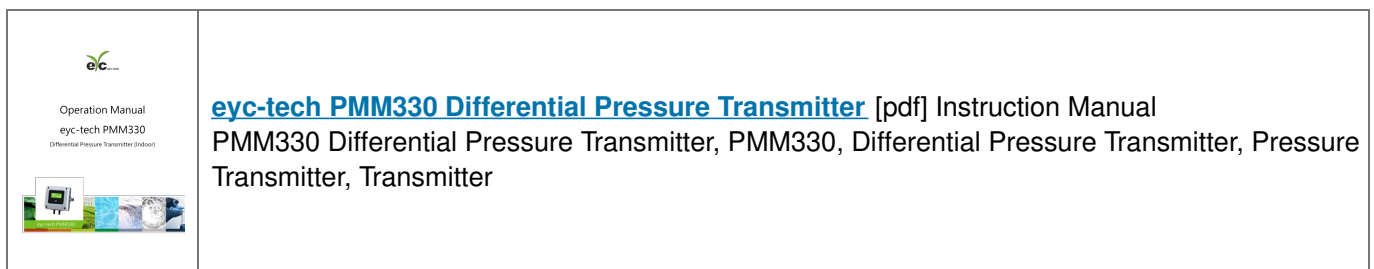
etc-tech Measuring Specialist enhances your capability with sensor technology Air flow | Humidity | Dew point | Differential pressure | Liquid flow Temp. | Pressure | Level | Air quality | Signal meter

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Web www.eyc-tech.com

e-mail info@eyc-tech.com

Documents / Resources



References

- [e/c eyc-tech 1/2 Taiwan measurement specialist, sensor manufacturer](#)
- [User Manual](#)

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