eyc-tech PMD330 Differential Pressure Transmitter User Manual

Operation Manual
eyc-tech PMD330
Differential Pressure Transmitter (Indoor)

eyc-tech PMD330

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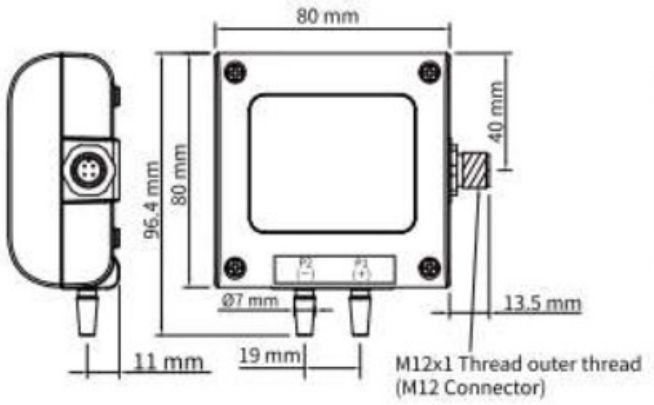
Security considerations

Please read this Specification carefully, prior to 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. eyc-tech will not bear any responsibility for the results produced by the operators

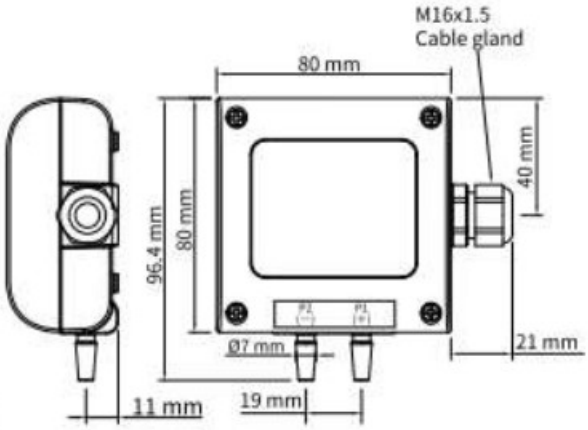
Warning!

- Installation and wiring must be performed by qualified personnel in accordance with all applicable safety standards.
- This product must be operated under the operating conditions specified in manual to prevent equipment damages.
- Please using the product under the ordinary pressure, or it will influence safe problem.
- This product must be operated under the operating condition specified in this manual to prevent equipment damages.
- This product must be operated under the normally atmospheric condition to prevent equipment damages.
- To prevent products 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 crimp type terminal.
- To prevent personal injury, do not touch the moving part of product in operation.
- It may cause high humidity atmosphere during the product was breakdown. Please take safety strategy.

Dimension

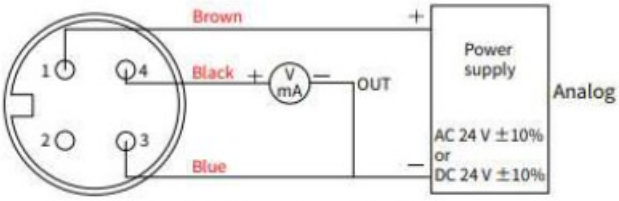


Indoor — M type

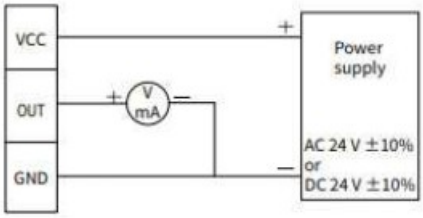


Indoor — N type

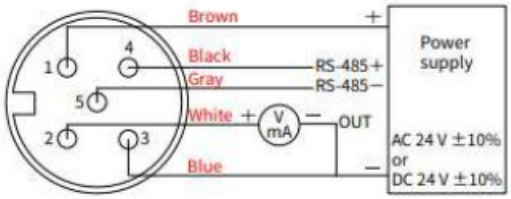
Connection Diagram



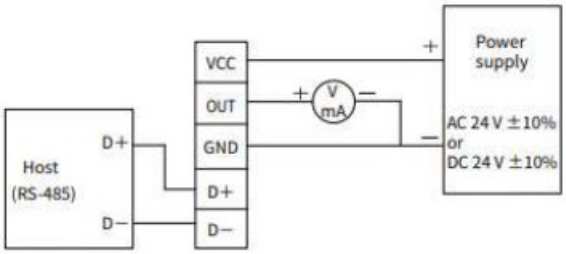
4P M12 Connector + Analog



3P Terminal, analog



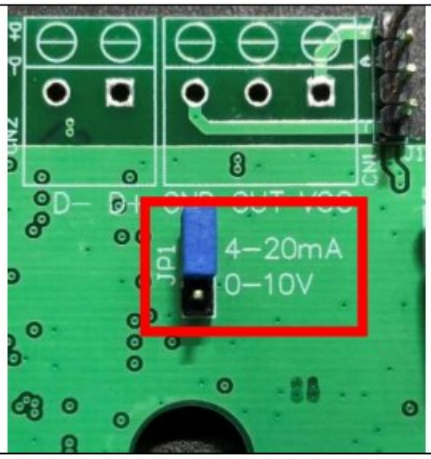
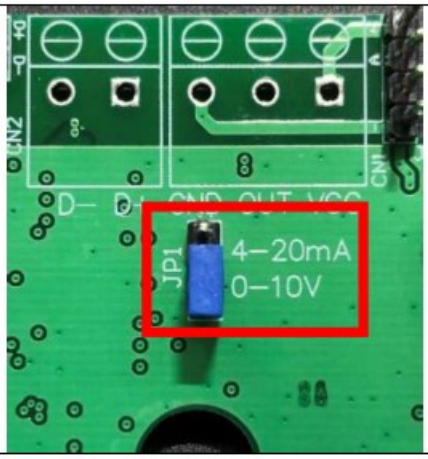
5P M12 Connector + RS-485



5P Terminal, analog + RS-485

Analog Output setting

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

	
4 ... 20 mA	0 ... 10 V

* User must do a power cycle after changing jumper placement.

Autozero

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

RS-485 and Modbus

PMD330 integrate a RS-485 interface for digital communication as a option feature.
Based on Modbus protocol makes the general convenience on PLC, HMI and PC connection. For Modbus protocol information please attached the file from website to download. Besides the PLC, HMI application, the user software provide the device setting and data logging function, it also can free download from website

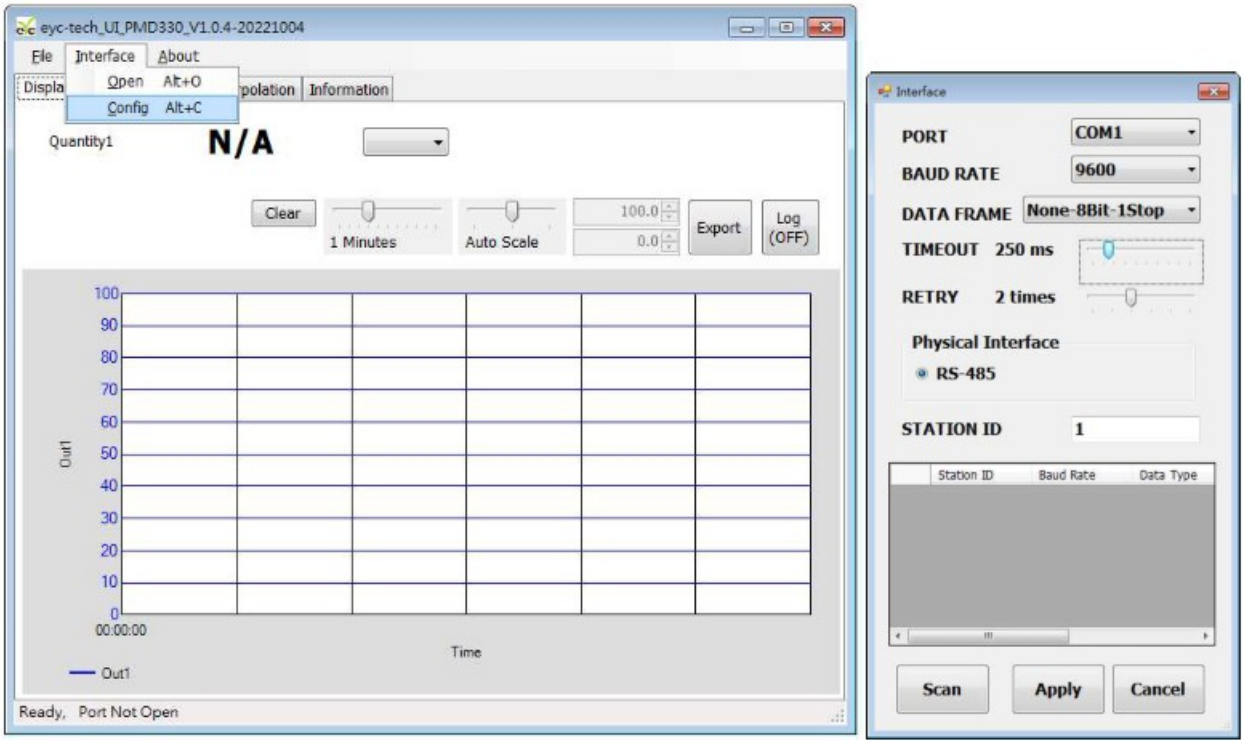
Technical Data

- 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

1. Hardware connection: Connect the PMD330 to PC by USB to RS-485 converter.
2. Check the COM port number from Computer Management

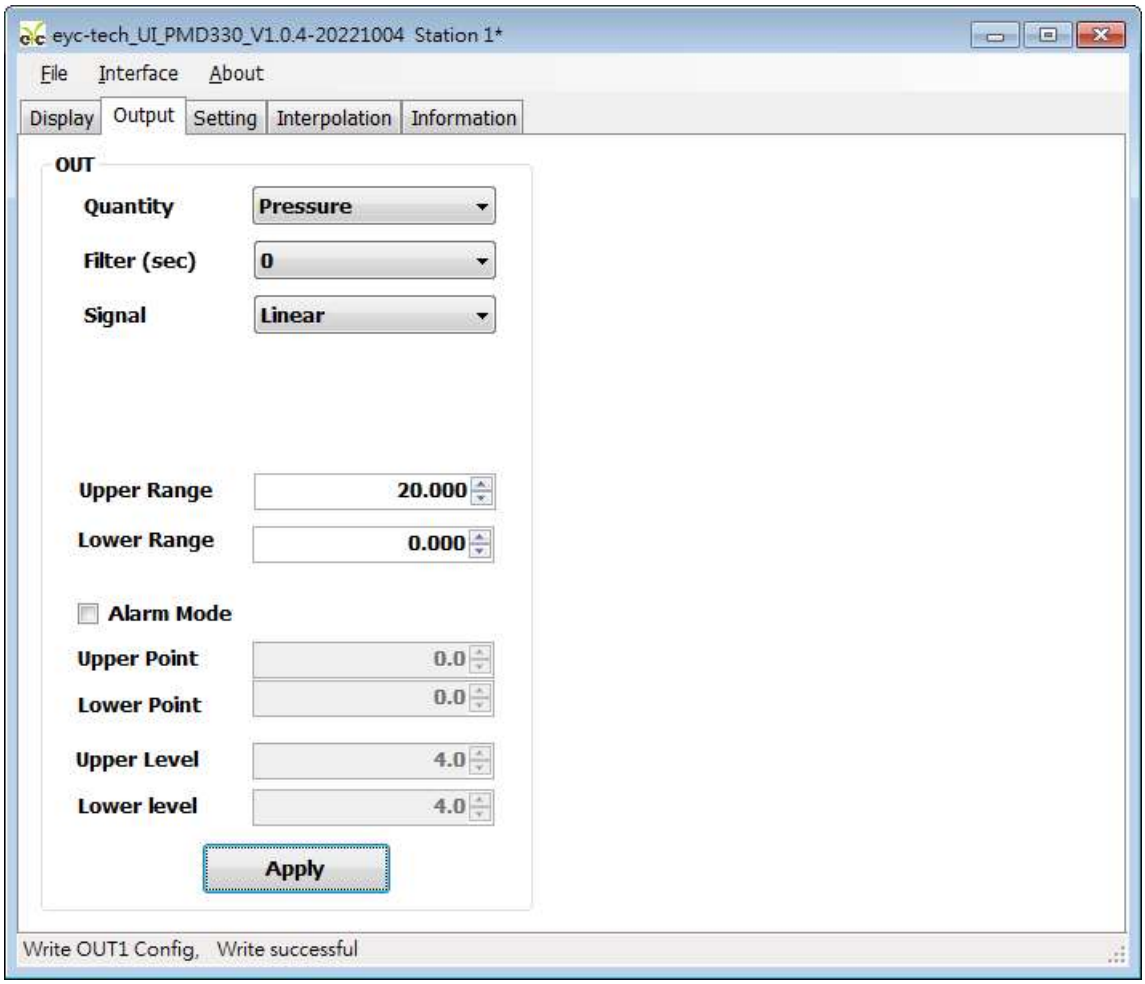
3. Open the PMD33_UI, go to function “Interface”, click item “Config” and then setting COM port, BAUD rate and data format, pressed “Scan” bottom for scan devices and “Apply” for connection.



4. Setting on Analog Output
   i. Quantity: Pressure
   ii. Filter: 0, 5, 10, 20, 25 seconds
   iii. Signal: Linear / Square root extraction

– LCD shown the √ mark on left-low side and red led of LDEP flash slowly while the square root extracted function has active.

iv. Range for Upper and Lower



5. Setting on RS-485 and offset adjustment

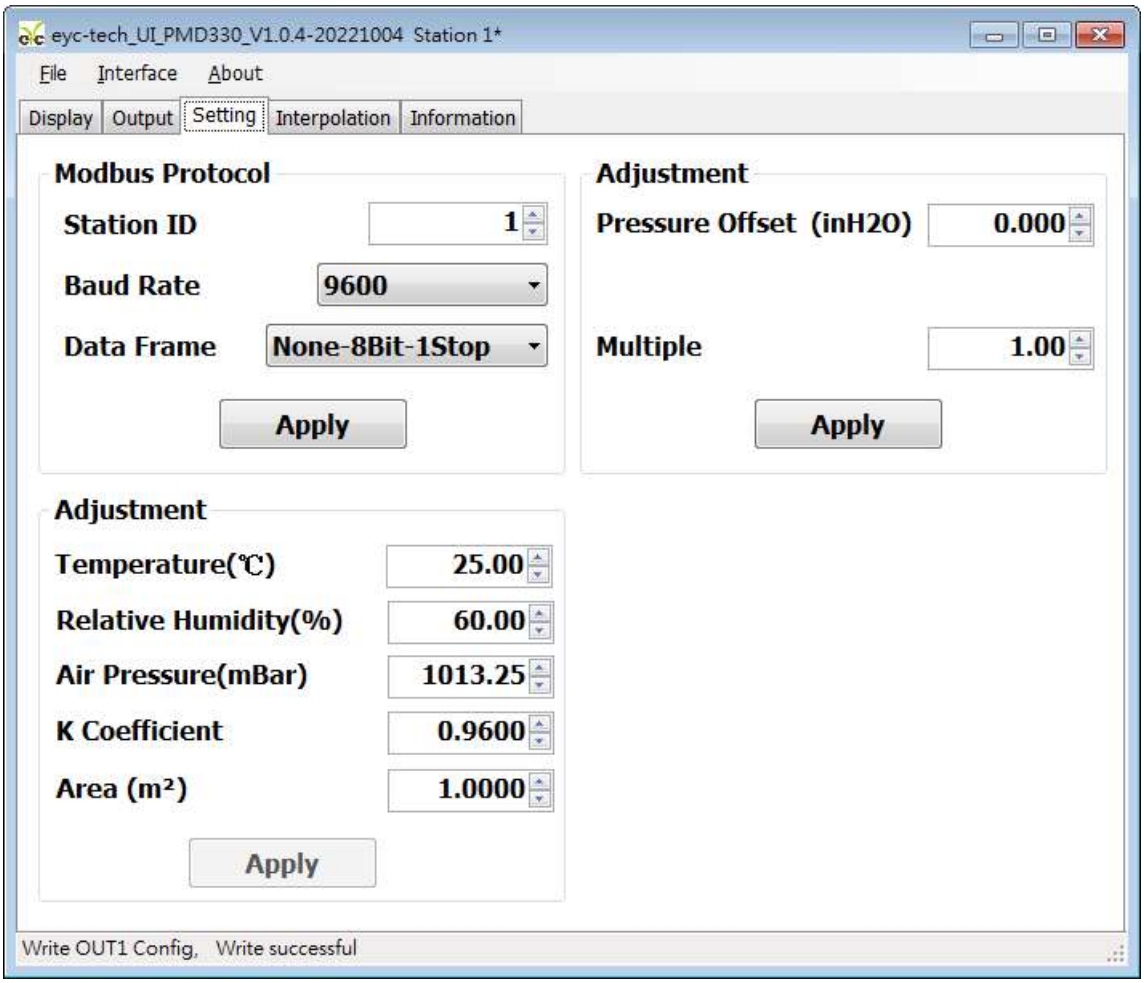
i. Station ID: 1~247

ii. Baud Rate: 9600 / 19200 / 38400 / 57600 / 115200

iii. Data Frame: None-8Bit-1Stop / None-8Bit-2Stop / Even-8Bit-1Stop / Even-8Bit-2Stop / Odd-8Bit-1Stop / Odd-8Bit-2Stop /

iv. Pressure Offset adjustment, unit available in inH2O only

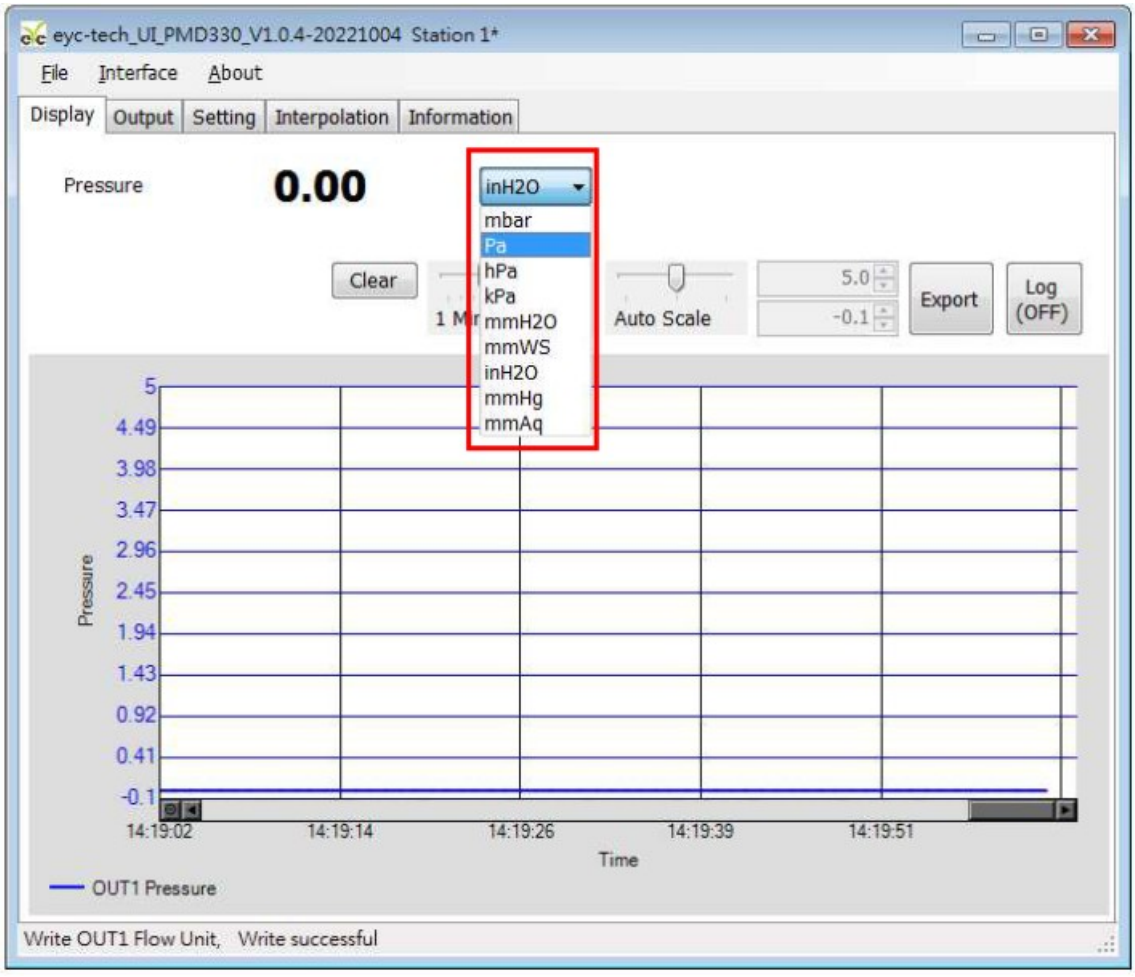
v. Multiple on measuring value, from 0.01 to 100



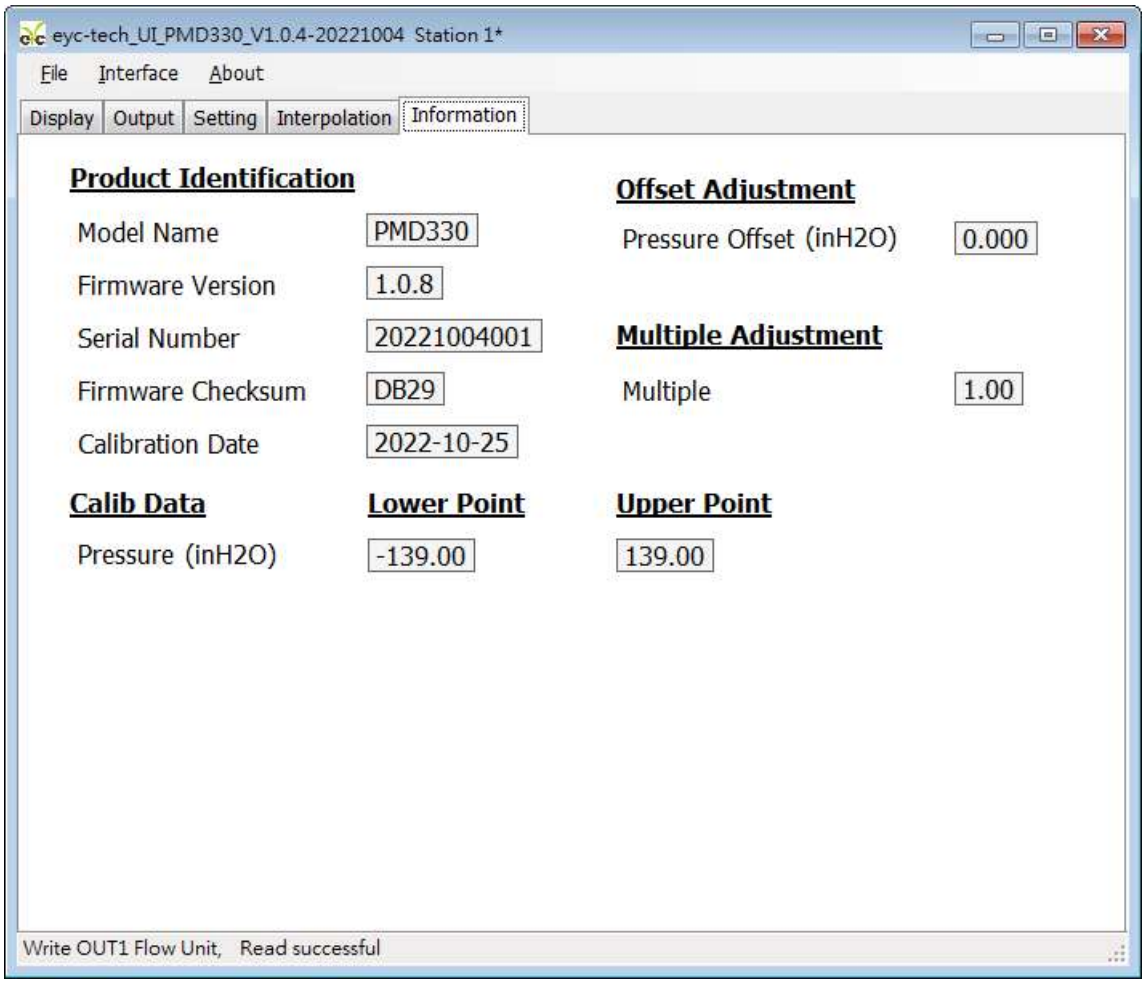
6. Unit setting, data display and data logging

   i. Pressure unit: mbar, Pa, hPa, kPa, mmH2O, mmWS, inH2O, mmHg

   ii. Export file: *.CSV



7. Transmitter information



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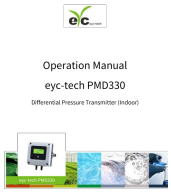
Documents / Resources

	eyc-tech PMD330 Differential Pressure Transmitter [pdf] User Manual PMD330 Differential Pressure Transmitter, PMD330, Differential Pressure Transmitter, Pressure Transmitter, Transmitter

References

- eyc-techï½œTaiwan measurement specialist, sensor manufacturer