

Manosys Receiver: EMP2•EMP3

This unit is used in combination with the Manosys Pressure Transmitter.

Display, calculation, alarm signal output and signal output can be done only with this receiver.

This Receiver is standard-equipped with a 2-line DC power source for transmitter, and square root calculation function (airflow meter only).



EMP2

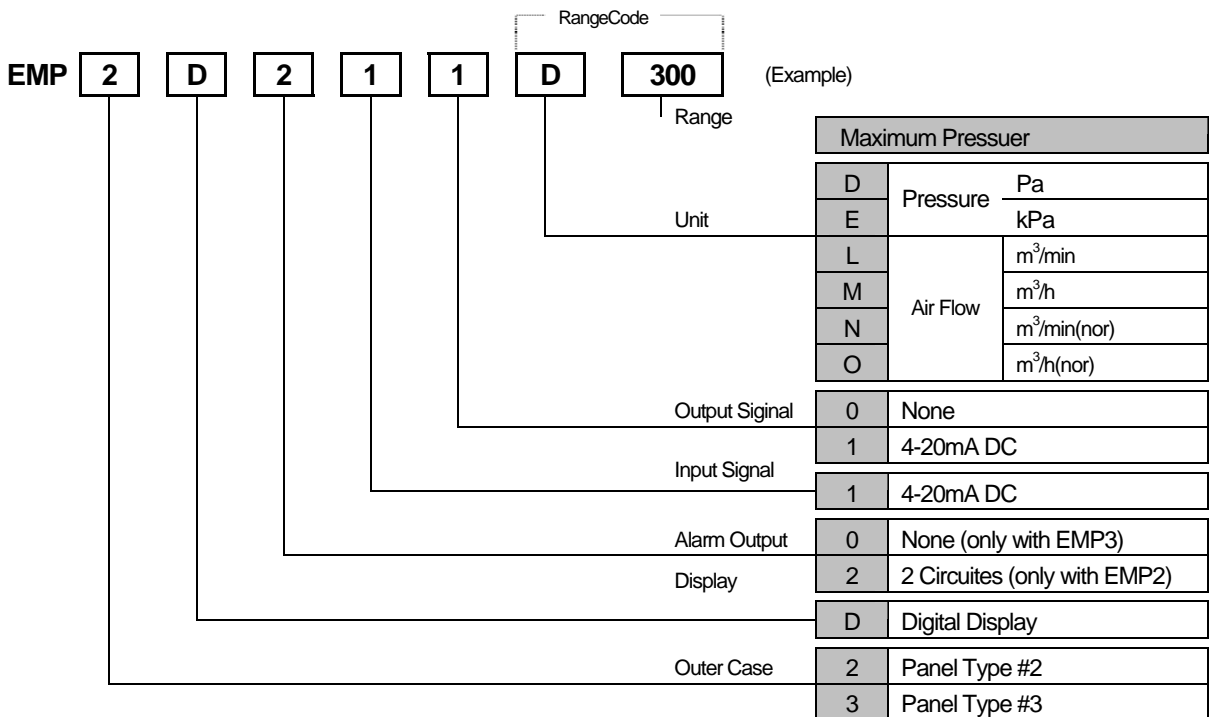
With Alarm Output



EMP3

Without Alarm Output

Product Code Naming



Specifications

| Model | EMP2 | EMP3 |
|--|---|--------------|
| Display | Digital 3 1/2 digit | |
| Input Signal | 4~20mA DC (Input resistance 250Ω) Max. value may vary in case of airflow measurement. | |
| Output Signal | 2-line type DC power supply for use with pressure transmitter, internal 24V DC None or 4~20mA DC (load resistance 500Ω or less) | |
| Output Signal Accuracy | In case of airflow measurement, input signal is the extracted square root of the output signal. ± 1%F.S. (at 20°C), For airflow measurement: 15-100%F.S extracted output value only. | |
| Power Supply | 100V AC ± 10% 50/60 Hz, EMP2 Appx. 7VA, EMP3 Appx. 6VA | |
| Alarm (Relay Contact Output) | 2 circuits (one each for upper and lower limits) | None |
| Outer Casing | ABS resin (ivory) | |
| Operating Temp. | 0°C~50°C (no icing) | |
| Operating Humidity | 90%RH or less (no condensation) | |
| Insulation Resistance | Terminal to ground: over 20MΩ (500V DC megger) | |
| Voltage Resistance | Terminal to ground: 1500V AC 50/60Hz 1 min | |
| Accessories | Installation fittings (2) | |
| Weight | Approx. 650g | Approx. 500g |

| Pressure Range Code | Pressure Range | Accuracy at 20°C | Temp. Drift (0~40°C) | Alarm | | | |
|--|---|--|----------------------|---|--|--|--|
| D10 D20 D30 D50 D100 D200 D300 D500 D1000 | 0~10 Pa 0~20 Pa 0~30 Pa 0~50 Pa 0~100 Pa 0~200 Pa 0~300 Pa 0~500 Pa 0~1 kPa | ±1%F.S. ± 1 digit For airflow measurement: 15-100% F.S. | ±0.05%F.S/°C | Form of output: 2 X SPDT (one circuit at upper and lower limits) Contact Capacity: MAX. 1.5A 120V AC 1.5A 30V DC MIN. 0.1A 5V DC Range of Settings: Upper Limit: 15-100%F.S. Lower Limit: 0-85%F.S. On-Off Dead band: Within 2% F.S. | | | |
| E2 E3 E5 E10 E20 E30 E50 | 0~2 kPa 0~3 kPa 0~5 kPa 0~10 kPa 0~20 kPa 0~30 kPa 0~50 kPa | | | | | | |
| D ± 10 D ± 20 D ± 30 D ± 50 D ± 100 D ± 200 D ± 300 D ± 500 D ± 1000 | ± 10Pa ± 20Pa ± 30Pa ± 50Pa ± 100Pa ± 200Pa ± 300Pa ± 500Pa ± 1000Pa | | | | | | |
| E ± 2 E ± 3 E ± 5 | ± 2 kPa ± 3 kPa ± 5 kPa | | | | | | |
| Airflow Range Code | Airflow Range (Note 1) | | | | | | |
| None | 0~ A B C | | | | | | |

Note 1: **A**: Value (rounded off), **B**: Multiplying power (x10, x100, x1000, x10000), **C**: Unit (m³/h, m³/min, m³/h(nor), m³/min(nor))

- Negative displays (such as 0~ -100Pa) are also available.

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