

# F500-DMA Differential, Gauge and Absolute Pressure Transmitter

The intelligent pressure transmitter FOSTEN SERIES F500 offers three models: Differential, Gauge and Absolute. The variation may occur depending on the need for the application / industrial process to be controlled. Each type will therefore imply a different mechanical joint precisely due to the operating principles.

- In a Differential type transmitter, process pressure is applied to both the high and low sides of the capacitive sensor.
- In a Gauge-type transmitter, process pressure is applied to the high side of the sensor, while the low side is open to atmosphere.
- In an Absolute type transmitter, the process pressure is applied on the high side of the sensor, while on the low side there is a vacuum chamber.

## Technical Characteristics:

- Accuracy:  $\pm 0.075\%$
- Exit sign: 4 to 20 mA
- Communication protocol: Hart
- Food: 9 to 32 Vdc, no polarity – 12 mA
- Operating Temperature:  $-20^{\circ}\text{C}$  to  $100^{\circ}\text{C}$
- Storage Temperature:  $-20^{\circ}\text{C}$  to  $100^{\circ}\text{C}$
- Room Temperature:  $-20^{\circ}\text{C}$  to  $85^{\circ}\text{C}$
- Output Types: Linear and square root
- Degree of Protection: IP66
- Response time: 50 ms
- Rangeability: 80:1
- Thermal Stability:  $\pm 0.15\%$  URL, 5 years
- Display: Backlight type
- Approximate weight (with stand): 3.5 Kg for differential and gauge version

## Main Applications:

- Sugar and Ethanol
- Fertilizers
- Food & Drinks
- Pharmaceutical
- Energy
- Plastic
- Chemical
- Petrochemical

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