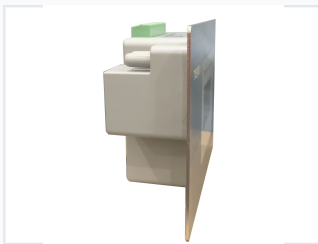


# Flush Mount Differential Pressure Transmitter

This flush mount differential pressure transmitter measures and displays differential pressure in cleanrooms and HVAC systems. Designed for flush mounting, it provides accurate monitoring and control of airflow and pressure differentials.



## ADDITIONAL IMAGES



## Overview

### Applications & Features

- Designed for flush mount, measure and display environment differential pressure such as cleanrooms in electronics or pharmaceutical plants, hospital and laboratories, etc.
- 316L front panel, PMMA window, flat surface, no dust stays, good for all detergents, sanitizers and bactericides
- Strong EMI capability, compatible with the EMI requirements of EN61326-1 for industrial equipment
- DP17 has large LCD and DP17M/H has 3.2" TFT color LCD
- High performance sensor, accuracy up to 0.5%FS, range as low as 0~25Pa, 100% interchangeable sensor without re-calibration, with 1 channel 4~20mA output
- Compatible to any DDC/PLC/SCADA or other data collect and control systems

Designed for cleanroom and laboratory environments with a dust-resistant 316L stainless steel front panel.

### High-Precision Flush Mount Pressure Transmitter

This flush-mounted differential pressure display unit and transmitter is engineered for precise monitoring in critical environments like cleanrooms, electronics manufacturing, pharmaceutical plants, hospitals, and laboratories. Featuring a 316L stainless steel front panel and a flat surface design, it resists dust accumulation and is compatible with standard cleaning agents. The unit offers versatile integration with DDC, PLC, and SCADA systems, ensuring reliable performance in demanding industrial applications.

## Technical Specifications

**Update time:** <1s  
**Power supply:** 16~28VAC/19~35VDC  
**Consumption:** DP17 < 1 VA, DP17M/H < 2 VA  
**Analog outputs:** 1x4~20mA(3/4 wires), R, -5000; over voltage and reverse polarity protection; accuracy as low as 0.1%FS(0.5%FS accuracy)/0.3%FS(1%FS accuracy)  
**Communication(DP17M/H):** 1xRS485/Modbus RTU, R/W 9600 baud rate, can set brightness, display setting functions and parameters calibration, etc. May set terminal resistance  
**Data curve (DP17M/H):** Support data curve trend display  
**Keys(DP17M/H):** can set display mode/parameter, brightness, unit and communication parameters, etc.  
**Process connection:** Built-in DP sensor: 2 conical nozzles on back, Ø 5 mm tube connection  
**Zero set:** zero button / key  
**Terminals:** max Ø1.5mm<sup>2</sup>  
**Work environment:** 0~50°C, 0~95%RH (no cond.)  
**Storage environment:** -10~70°C  
**Front panel material:** 316L stainless steel, 1.5mm thick  
**Back housing parts:** fire retardant ABS+PC(UL94V-0)  
**Protection:** front panel IP65  
**Weight:** DP17 385g; DP17M/H 440g  
**Approval:** CE, meet EN61326-1 for industrial equipment

Detailed technical data including electrical requirements, communication protocols, and environmental ratings.

### Accuracy & Performance

**0.5 %FS**

Accuracy (DP17H)

**1 %FS**

Accuracy (DP17/DP17M)

**0.5 %FS/Year**

Long-term Drift

### Electrical Requirements

- Power Supply: 16~28VAC / 19~35VDC
- Analog Output: 1x 4~20mA (3/4 wires)
- Over voltage and reverse polarity protection included
- Consumption: DP17 < 1 VA, DP17M/H < 2 VA

### Environmental Ratings

IP65 Front Panel, 0~50°C Operating Temp, 0~95%RH (Non-condensing), Fire Retardant Housing (UL94V-0)

## Display & Interface

### Specifications

#### Different pressure sensor:

DP Measurement	DP17/DP17M	DP17H
Accuracy	1%FS(2%FS@0~25Pa)	0.5%FS(1%FS@0~25Pa)
Range	0~60/0~125 etc. see range table	
Long term drift	<0.5%FS/Year	
Response time	0.5/1/5/10(switchable)	
Thermal effect	<0.05%FS/°C(Zero)	<0.03%FS/°C(Zero)
	<0.08%FS/°C(FS)	<0.04%FS/°C(FS)
Temp. comp.	0~50°C	
Medium Temp.	0~60°C	
Work Pressure	10xFS(overload), 20xFS(burst)	

#### Display:

- (1) DP17: 4 bits LCD (with backlight), display area 47x27mm, with word H 16mm and unit H 2mm
- (2) DP17M/H: 3.2" TFT color LCD (320x240), high light, can be set to DP value and real-time curves by keys

Display panel material: PMMA

Resolution: 0.1Pa(or 0.001 in vc/mbar, 0.01mm vc, etc., switchable)

Performance data for the internal pressure sensor and display configuration options.

### Display Specifications

Model	Display Type
DP17	4-bit LCD with backlight
DP17M/H	3.2" TFT Color LCD

### Communication & Control

- RS485/Modbus RTU (DP17M/H models)
- 9600 baud rate
- Data curve trend display (DP17M/H)
- Configurable via keys or DIP switches

## Mechanical Construction

### Physical Dimensions & Materials

- Front Panel: 316L Stainless Steel (1.5mm thick)
- Housing: Fire retardant ABS+PC
- Weight: 385g (DP17) / 440g (DP17M/H)
- Process Connection: 2 conical nozzles (Ø 5mm tube)

## Compliance

### Certifications & Standards

CE Certified • EN61326-1 Compliant