

# Pressure Transmitter

## Differential Pressure Transmitter:



### Description:

**ZNC-3051-C** Intelligent Differential Pressure Transmitter adopts the modular design with microprocessor as the core and assisted by advanced digital isolation technology in circuit design, which makes the instrument have very high anti-interference and stability, and meanwhile compensates the transmitter through the built-in temperature sensor, which improves the measurement accuracy and reduces the temperature drift, and has the features of good long-term stability, high reliability, and self-diagnostic ability. In terms of structure, it is very convenient for users to calibrate, set and configure the transmitter through the HART communication hand manipulator.

### Product Features:

1. Preferred imported silicon, temperature effect error is small, wide temperature range;
2. high hydrostatic capacity, one-way overpressure up to 25MPa;
3. high anti-interference and long-term stability;
4. powerful 24-bit ADC, high precision;
5. One-key zero function, safer and faster.

### Applications:

**ZNC-3051-C** Intelligent Differential Pressure Transmitter is used to measure the level, density, pressure of liquid, gas or steam with high accuracy.

## PRODUCT PARAMETERS:



Type	(Intelligent Differential Pressure Transmitter) Parameters
Measuring medium	Gases, vapors, liquids
Accurate	$\pm 0.05\%$ , $+0.075\%$ , $\pm 0.1\%$ (including linearity, return and repeatability from zero)
Stability	$+0.1\%/3$ years
Ambient temperature effects	$\leq \pm 0.04\% \text{URL}/10^{\circ}\text{C}$
Static pressure effects	$+0.05\%/10\text{MPa}$
Power supply	10.5~36V DC(Intrinsically safe explosion-proof 10~26V DC)
Power Impact	$\pm 0.001\% / 10\text{V}$ , negligible
Environmental temperature	$-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Measuring medium temperature	$-40^{\circ}\text{C} \sim 120^{\circ}\text{C}$
Storage temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Display Type	LCD
Display shows module temperature	$-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$

**MODEL SELECTION:**

(Intelligent Differential Pressure Transmitter) Model					(Intelligent Differential Pressure Transmitter) Description
ZNC-3051-	①	②	③	④	
Instrument Classification	Y				Pressures
	C				Differential pressure
Meter Type		0			Standard type
		1			Single Flat Flange Type
		2			Double Flat Flange Type
		3			Single-plug flange type
		4			Double-plug flange type
		5			One flat and one inserted flange type
Measurement range			0		0-0.06~0.3kPa
			1		0-0.25 ~ 1.5kPa
			2		0-1.2~10kPa
			3		0-6~40kPa
			4		0-30~180kPa
			5		0-160~1000kPa
			6		0-400~2500kPa
			7		0-1600-8000kPa
			8		0-4000~25000kPa
			9		0-7000~40000kPa
Output Method				H	With Hart protocol
				T	4-20mA output