



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Pressure transmitter

SIN-2051LT

Sinomeasure

Committed to process automation solutions

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Datasheet**Pressure transmitter
SIN-2051LT**

The circuit design of the monocrystalline silicon pressure transmitter adopts a modular design with a microprocessor as the core and advanced digital isolation technology, so that the instrument has extremely high anti-interference and stability. The transmitter is compensated, which improves the measurement accuracy, reduces the temperature drift, and has the characteristics of good long-term stability, high reliability, and strong self-diagnosis ability. In terms of structure, the user can easily calibrate, set and configure the transmitter through the HART communication handheld operator.

Applications

- Industrial control
- Chemical field
- Electricity
- Metallurgy
- Petroleum industry
- Forging industry
- Water affairs
- Brewing

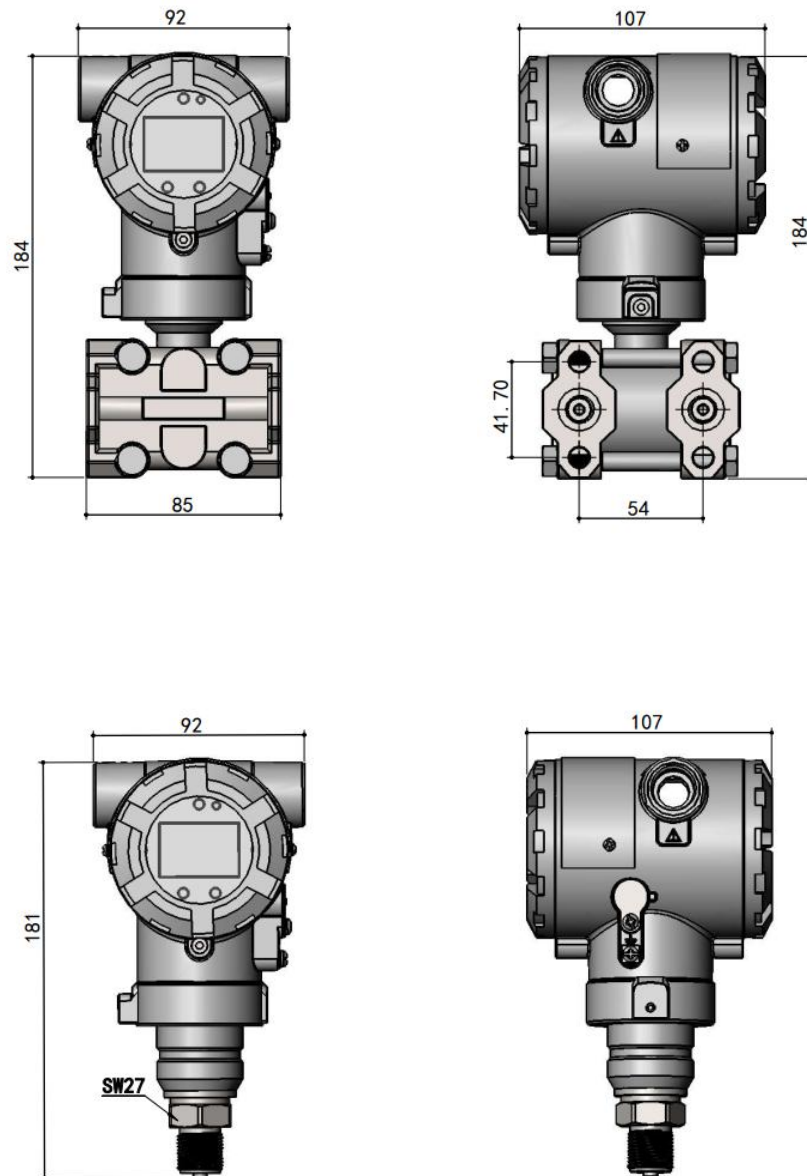
Features

- Advanced Technology and Packaging Process
- One-way overpressure up to 25MPa
- Microprocessor as the core and assisted by advanced digital isolation technology design
- High anti-interference and stability
- Powerful 24-bit ADC for High Accuracy
- One-key reset function

**SIN-2051LT**

Parameters	
Measuring medium	Gas, steam, liquid
Accuracy	$\pm 0.05\%$, $\pm 0.075\%$, $\pm 0.1\%$ (including linearity from zero, hysteresis and repeatability)
Stability	$\pm 0.1\%/3$ years
Static pressure influence	$\pm 0.05\%/10\text{MPa}$
Power supply	(15~36) VDC
Power Supply Effect	Negligible $\pm 0.001\%$ /10V
Ambient temperature	(-40~85)°C
Measuring medium temperature	(-40~120) °C
Storage temperature	(-40~85)°C
Display	LCD
Display shows module temperature	(-20~70) °C

Dimension



Ordering code

SIN-2051LT-D-3E-D-H2-50-M1-0-A1-W1-M2-A-00													Description			
SIN-2051LT	-	-	-	-	-	-	-	-	-	-	-	-				
Pressure Type	D S	Differential Pressure														
		Pressure														
Measuring range	3E	10kPa														
	3G	30kPa														
	3J	50kPa														
	3L	100kPa														
	3M	250kPa														
	3P	1MPa														
	3R	3MPa														
	3T	10MPa														
	3U	20MPa														
	3V	40MPa														
	XX	Other														
Accuracy		F	0.2 Class													
		E	0.1 Class													
		D	0.075 Class													
Flange Specification			H2	HG/T20592 PN10/40												
			H4	HG/T20592 PN63												
			K1	ANSI Class 150												
			K2	ANSI Class 300												
			XX	Other												
Flange Size			50	DN50(2")												
			80	DN80(3")												
			1C	DN100(4")												
			XX	Other												
Flange Material			M1	304SS												
			M2	316SS												
Display Type				0	None											
				1	Available											
Output and Power Supply					A1	Two-Wire 4-20mA										
					A7	Two-Wire 4-20mA+HART										
					A5	RS485,24VDC										
Electrical Interface, Housing Material, and Ingress Protection													M20×1.5 Cable Gland, Aluminum Alloy, IP65			
													Other			
Diaphragm Material													316SS			
													Hastelloy C			
													Tantalum			

XX		Other
Filling Liquid	A	Silicone Oil
	B	High-temperature Silicone Oil
	F	Fluorinated oil
	C	Ultra-High-Temperature Silicone Oil
Capillary Length	00	0m
	02	2m
	05	5m
	10	10m
	XX	Other