



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Pressure transmitter

SUP-2051LT

Supmea[®]

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Datasheet**Pressure transmitter
SUP-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

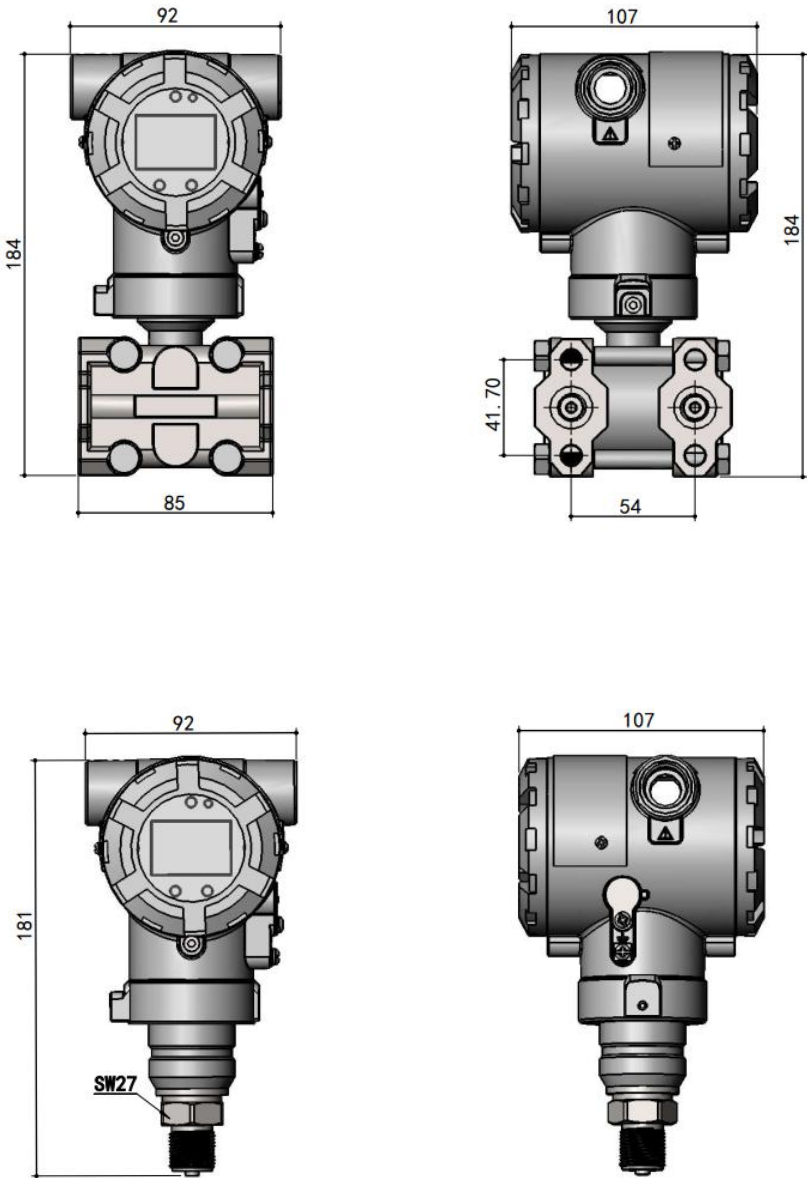
Features

- 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

**SUP-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

SUP-2051LT-D-3E-D-H2-50-M1-0-A1-W1-M2-A-00													Description
SUP-2051LT	-	-	-	-	-	-	-	-	-	-	-	-	Differential Pressure
Pressure Type	D												Pressure
	S												10kPa
		3E											30kPa
		3G											50kPa
		3J											100kPa
		3L											250kPa
Measuring range		3M											1MPa
		3P											3MPa
		3R											10MPa
		3T											20MPa
		3U											40MPa
		3V											Other
		XX											0.2 Class
Accuracy			F										0.1 Class
			E										0.075 Class
			D										HG/T20592 PN10/40
				H2									HG/T20592 PN63
Flange Specification				H4									ANSI Class 150
				K1									ANSI Class 300
				K2									Other
				XX									DN50(2")
					50								DN80(3")
Flange Size					80								DN100(4")
					1C								Other
					XX								304SS
Flange Material						M1							316SS
						M2							None
Display Type							0						Available
							1						Two-Wire 4-20mA
Output and Power Supply								A1					Two-Wire 4-20mA+HART
								A7					RS485,24VDC
								A5					M20×1.5 Cable Gland,
Electrical Interface, Housing Material, and Ingress Protection									W1				Aluminum Alloy, IP65
										XX			Other
											M2		316SS
Diaphragm Material											MG		Hastelloy C
											T2		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