



Datasheet

Flat membrane pressure transmitter

SUP-P350

Supmea[®]

Committed to process automation solutions

Tel: 86-15158063876

E-mail: info@supmea.com

www.supmea.com

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Datasheet**Flat membrane pressure transmitter
SUP-P350**

The flat membrane pressure transmitter uses a corrugated membrane to directly sense the pressure. The sensor's flat diaphragm prevents fouling, unsanitary and clogging of viscous liquids. It has the characteristics of small size, light weight and good long-term stability, and is widely used in food, medicine, health and brewing industries.

Applications

- Food
- Medicine
- Oil industry
- Paper industry
- Chemical industry

Features

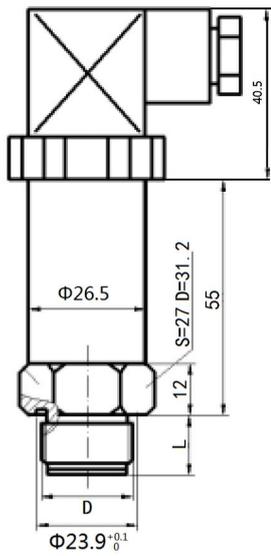
- Compact structure and easy installation.
- Advanced diaphragm/oil-filled isolation technology.
- High stability and high reliability.
- Anti-vibration, anti-radio frequency interference.
- 316L stainless steel isolation diaphragm structure.
- Micro amplifier, voltage, current, RS485 signal output.
- Strong anti-interference, good long-term stability.
- Wide range and multiple mode pressure

**Flat membrane pressure transmitter**

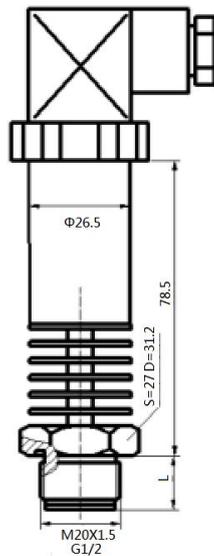
Parameters

Details	
Power supply	4-20mA output (10-32V); 0-10V output (12-32V); RS485 output (5-28V)
Output	4~20mA; 1~5V; 0~10V; 0~5V; RS485
Accuracy	0.5%FS
Threaded connection flat film range	-0.1...0...10MPa (the measuring range cannot be lower than 10KPa)
Clamp connection flat film range:	-100kPa...0~10kPa...7MPa
Pressure type	Gauge pressure, Sealing pressure
Compensation temperature	-10°C ~ 70°C
Working temperature:	-20°C ~ 85°C
Medium temperature	-20°C ~ 85°C
Zero temperature drift	±0.3%FS/10°C
Full-scale output temperature drift:	±0.3%FS/10°C
Long-term stability	±0.2%FS/year
Response time	Current and voltage output pressure ≤ 10ms (up to 90%FS); RS485 output pressure ≤ 100ms (up to 90%FS)
Insulation resistance	20MΩ, 250VDC
Dielectric strength	50Hz, 500VAC
Protection class	IP65
Load resistance	(U-9V)/0.02A, U: supply voltage

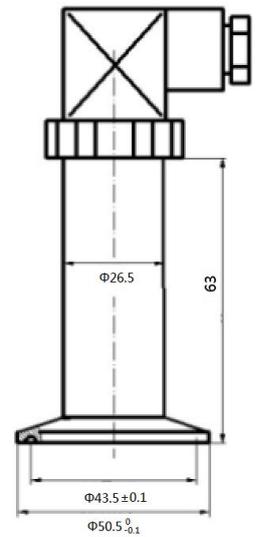
Dimensions



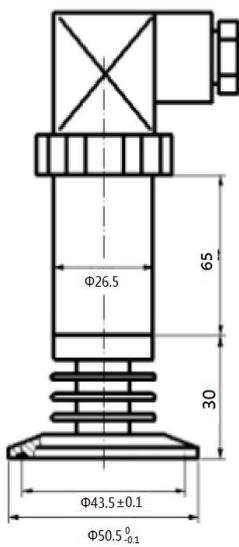
Hessman Threaded Flat Membrane



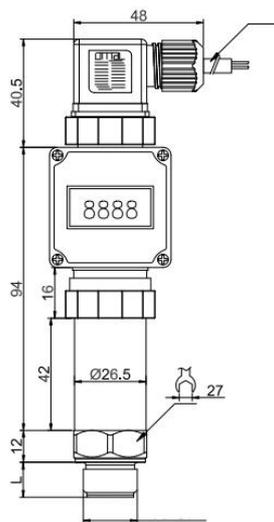
High temperature type Hessman thread



Hessman clamp flat film



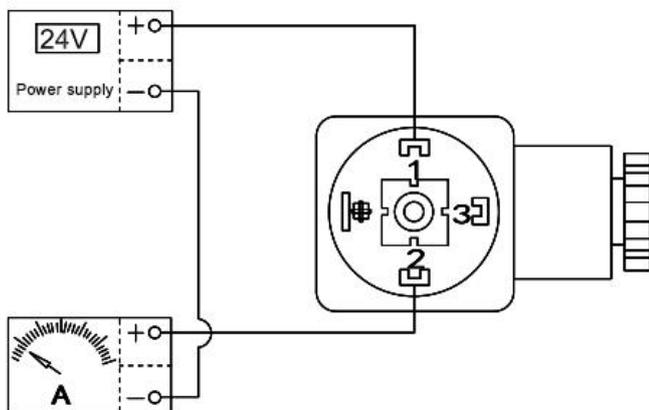
High temperature type Hessman clamp flat film



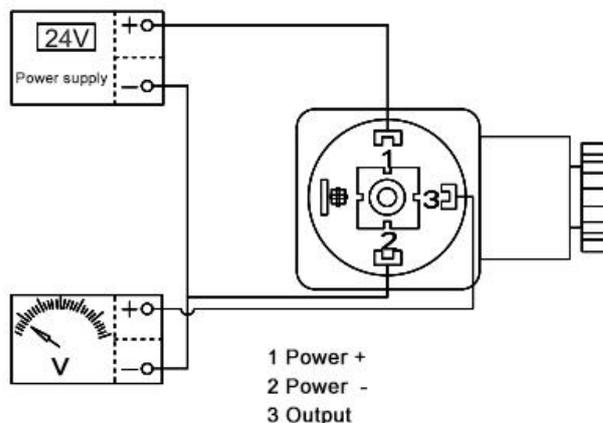
Hessman flat film belt display

Wirings

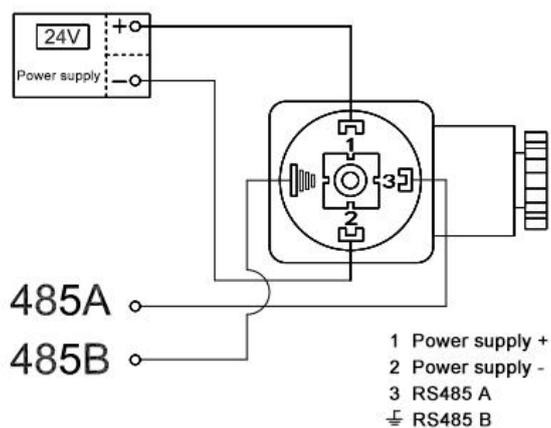
2-wire current



Voltage output



RS485 output



Current output:

Red: Power +
Green: Current output +

Voltage output:

Red: Power +
Green: Power -
Yellow: Voltage +

RS485 output:

Red: Power +
White: Power -
Green: RS485 +
Yellow: RS485 -

Ordering code

SUP-P350-G-1A-F-A1-L2-B-WA-02										Description	Remarks	
P350	-	-	-	-	-	-	-	-	-	-	Gauge Pressure	
Pressure Type	G										Absolute Pressure	Optional only for the range of 0-30kPa to 1MPa
Measurement Range		1A									-100-0kPa	
		1B									-100-100kPa	
		1C									-100-1000kPa	
		1L									0-10kPa	
		1M									0-20kPa	
		1N									0-30kPa	
		1Q									0-50kPa	
		1S									0-100kPa	
		2A									0-0.6MPa	
		2B									0-1MPa	
		2C									0-1.6MPa	
		2D									0-2.5MPa	
		2E									0-4MPa	
		2H									0-10MPa	
		XX									Other	
	Accuracy											0.5 Class
											0.25 Class	Measurement range within ± 50 kPa is not selectable
											0.2 Class	
Output and Power Supply					A1						2-Wire 4-20mA	12-32VDC
					A2						1-5V,24VDC	
					A3						0-10V,24VDC	
					A4						0-5V,24VDC	
					A5						RS485.24VDC	
Thread Type					L2						M20 \times 1.5	
					G2						G1/2	
					AK						2" Clamp	
					XX						Other	
Diaphragm and Thread Type Material						B					SS316L,SS316L	
						X					Other	
Electrical Interface, Housing Material, and Ingress Protection								WA			DIN Connector,304SS,IP65	
								WB			DIN Connector,SS316L,IP65	

	WG		M12 Connector,304SS,IP65	
	WH		M12 Connector,SS316L,IP65	
	WN		Cable Connector,304SS,IP65	
	WP		Cable Connector,SS316L,IP65	
	WT		Cable Connector,304SS,IP68	Selectable only for measurement ranges greater than or equal to 100kPa
	WU		Cable Connector,SS316L,IP68	
	XX		Other	
Cable Length	02		2m	
	05		5m	
	10		10m	
	XX		Other	
Additional Features (Optional)				
Accessories	PA		Carbon Steel Thread Base	
	PB		304SS Thread Base	

Note: Transmission output and communication output do not coexist