











Datasheet

Flat membrane pressure transmitter **SIN-P350**

Sinomeasure

Committed to process automation solutions

Tel: 86-13336194863

E-mail: info@sinomeasure.com

www.sino-measure.com

Datasheet

Flat membrane pressure transmitter **SIN-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

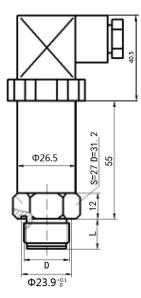
- Compact structure and easy installation.
- Advanced diaphragm/oil-filled isolation technology.
- High stability and high reliability.
- Anti-vibration, anti-radio frequency interference.
- 316L stainless steel isolation diaphragm Flat membrane pressure transmitter structure.
- Micro amplifier, voltage,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



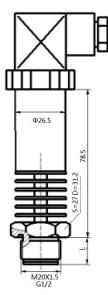
Parameters

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	-0.1010MPa (the measuring range cannot be lower than 10KPa)			
Clamp connection flat film range:	-100kPa0~10kPa7MPa			
Pressure type	Gauge pressure, Sealing pressure			
Compensation temperature	-10℃~70℃			
Working temperature:	-20℃~85℃			
Medium temperature	-20℃~85℃			
Zero temperature drift	±0.3%FS/10℃			
Full-scale output temperature drift:	±0.3%FS/10℃			
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			

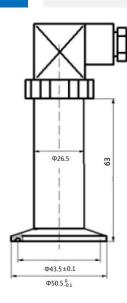
Dimensions



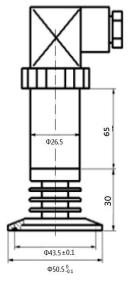
Hessman Threaded Flat Membrane film



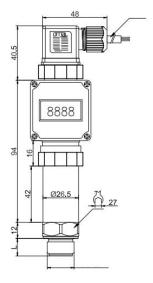
High temperature type Hessman thread



Hessman clamp flat

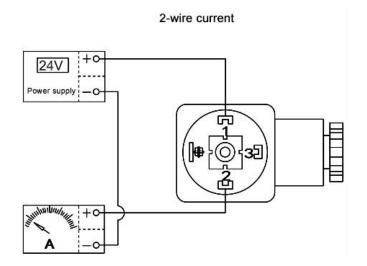


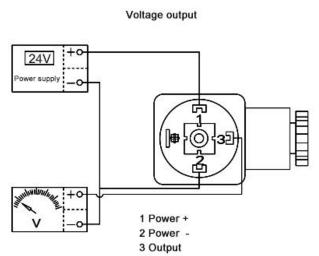
High temperature type Hessman clamp flat film



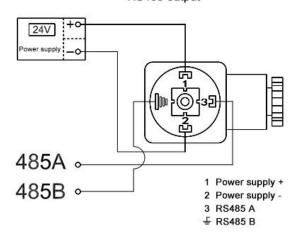
Herssman flat film belt display

Wirings





RS485 output



Current output: Voltage output: RS485 output: Red: Power + Red: Power + Red: Power +

Green: Current output + Green: Power - White: Power + Yellow: Voltage + Green: RS485 + Yellow: RS485 -

Ordering code

SIN-P350-G-1	1A-F-A1	-L2-B	-WA	-02					Description	Damada
P350		_	_	-	_	-	-		Description	Remarks
	G								Gauge Pressure	
Pressure Type	А								Absolute Pressure	Optional only for the range of 0-30kPa to 1MPa
	1A								-100-0kPa	
	1B								-100-100kPa	
	1C								-100-1000kPa	
	1L								0-10kPa	
	1M								0-20kPa	
	1N								0-30kPa	
	. 1Q								0-50kPa	
Measuremen	^{it} 1S								0-100kPa	
Range	2A								0-0.6MPa	
	2B								0-1MPa	
	2C								0-1.6MPa	
	2D								0-2.5MPa	
	2E								0-4MPa	
	2H								0-10MPa	
	XX								Other	
		K							0.5 Class	
Accurac	;y	G							0.25 Class	Measurement range within
		F							0.2 Class	±50kPa is not selectable
			A1						2-Wire 4-20mA	
			A2						1-5V,24VDC	
Output and Power Supply		pply	А3						0-10V,24VDC	12-32VDC
			A4						0-5V,24VDC	
			A5						RS485.24VDC	
				L2					M20×1.5	
Thread Type			G2					G1/2		
			AK					2" Clamp		
				XX					Other	
Biankara and Thursday B						SS316L,SS316L				
Diaphragm and	Diaphragm and Thread Type Material X						Other			
Electrical Interface, Housing Material,			WA			DIN Connector,304SS,IP65				
and I	ngress P	rotec	tion			WB			DIN Connector,SS316L,IP65	

Sinomeasure

Cable Length	Additiona	05 10 XX	5m 10m Other	
		02	2m	
	XX		Other	
	WU		Cable Connector, SS316L, IP68	greater than or equal to 100kPa
	WT		Cable Connector,304SS,IP68	Selectable only for measurement ranges
	WP		Cable Connector, SS316L, IP65	
	WN		Cable Connector, 304SS, IP65	
	WH		M12 Connector, SS316L, IP65	
	WG		M12 Connector,304SS,IP65	

Note: Transmission output and communication output do not coexist