

**azbil**

*Tem-Tech Lab*

**Vacuum Pressure Transmitter  
For High Temperature Applications**

**SCM-2100-EX Series(200°C over)**

**SCM-2100-H(100°C),U(150°C)Series**



### Applications

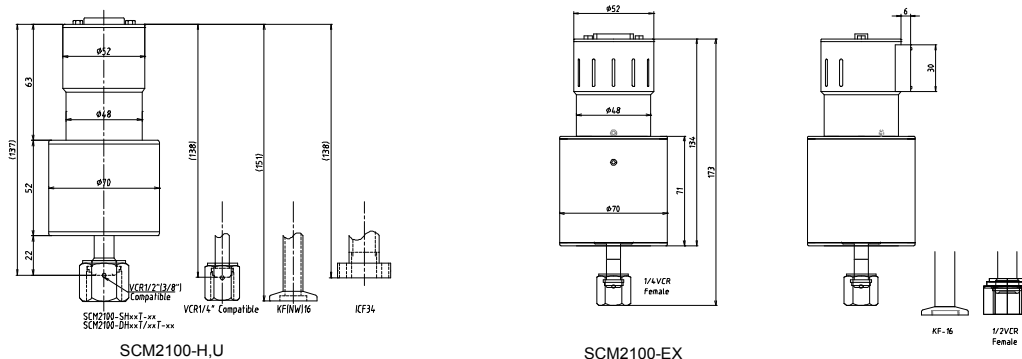
- Best solution for new high-K ALD processes using high molecular weight precursors
- Only available solution for applications >200°C!
- ALD or CVD of Nitride Films
- Organic thin film(Low-K,OEL etc)

### Features & Benefits

- *Saffire™ stick sensor structure for in-situ two-sided pressure measurement*
- *Reduced contamination of the sensor surface, resulting in reduced measurement drift*
- *Sustainable high measurement accuracy maintained throughout even high temperature operation*
- *Small footprint allows for mounting near chamber or any tight space*
- *Ambient airflow is not required to cool electronics, built-in fan for over 200°C model*
- *Mounting orientation has no affect on sensor zero*
- *Crystalline sensor design is robust when exposed to high pressure*
- *Factory calibrated temperature compensation algorithm results in fast startup*

# SCM2100 Series

## Dimensions(mm)



## Specifications

Model	SCM2100-H Heated to 100°C	SCM2100-U Heated to 150°C	SCM2100-EX Heated to 200°C/230°C/260°C
Application	Various type of Vacuum equipments, Process gas control and Measurement		
Full Scale Range	10 Torr, 100 Torr, 500 Torr, 1000 Torr (kPa range, Dual type available)		100Torr, 500Torr, 1000Torr
Burst Pressure	100PSI:700kPa	55PSI:400kPa	55PSI:400kPa
Accuracy (L.H.R.*1)	±0.2% Rdg	±0.5% Rdg	±0.5% Rdg
Output	0-10VDC<10kΩ Load		
Power Supply	±DC15V 0.6A	±15VDC 0.2A+DC48V1A for heater(separate power supply)	±DC15V 0.3A + DC48V1A for heater (separate power supply)
Operating Temp.	10 to 40 °C		
Zero Temperature Coefficient	±0.002%FS/°C	±0.005%FS/°C	±0.005%FS/°C
Span Temperature Coefficient	±0.02%Rdg/°C	±0.05%Rdg/°C	±0.05%Rdg/°C
Resolution	0.001%FS		
Responsively	50ms		
Materials Exposed To Gases	SUS316L, Inconel®, Sapphire		
Fitting	Weld stub, VCR 1/4", 1/2", KF-16, ICF-34, Others		
Electrical Connector	D-sub 15pin		
Weight	Approx 760g	Approx 910g	Approx 910g

note: \*1 Linearity, Hysteresis & Repeatability

### Ordering Information (\*Ex: SCM2100-SH11T-K1)

SCM2100-	Range Type		Temperature		Pressure range		Fitting Type & Size	
	S	Single Range	H	heated to 100 °C	11T	10 Torr	F1	Female VCR 1/4"
			U	heated to 150°C	12T	100 Torr	F2	Female VCR 3/8"
			EX1	heated to 200°C	52T	500 Torr	F3	Female VCR 1/2"
			EX2	heated to 230°C	13T	1000 Torr	C1	ICF34 Flange
			EX3	heated to 260°C			K1	KF16 Flange
							T3	Weld Stub 1/2"

Specifications are subject to change without notice.

## Tem-Tech Lab

### Head Office

2-7-13 Tsukishima, Chuo-ku  
Tokyo 104-0052 Japan  
TEL:81-3-3534-5320 FAX:81-3-3534-5322

### Osaka Branch

#205 9-23 Minamikawahori-chou, Tennoji,  
Osaka, Osaka 543-0054 Japan  
TEL:81-6-6776-9270 FAX:81-6-6776-9271

URL: <http://www.tem-tech.co.jp/>  
Contact : [hello@tem-tech.co.jp](mailto:hello@tem-tech.co.jp)

### AGENT:

1<sup>st</sup> Edition: Issued in Japan in 2008

No part of this publication may be reproduced or duplicated without the prior written permission of Tem-Tech Lab