



Precision Vacuum Transmitter



Variation of SCM2100



SCM2100

SCM2100-TP



SCM2100 -H

SCM2100-H-TP

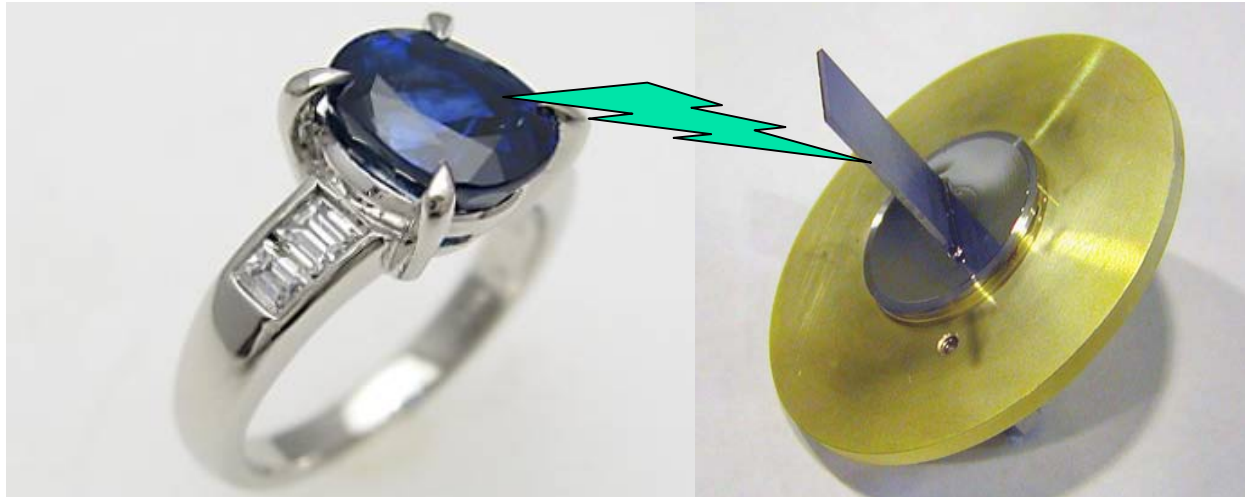


SCM2100 -HH



New Product Vacuum Sensor

Jewelry came to sensing element



Saffire™ is Crystal sapphire diaphragm



Newly developed Sapphire element

New Material toward next generation

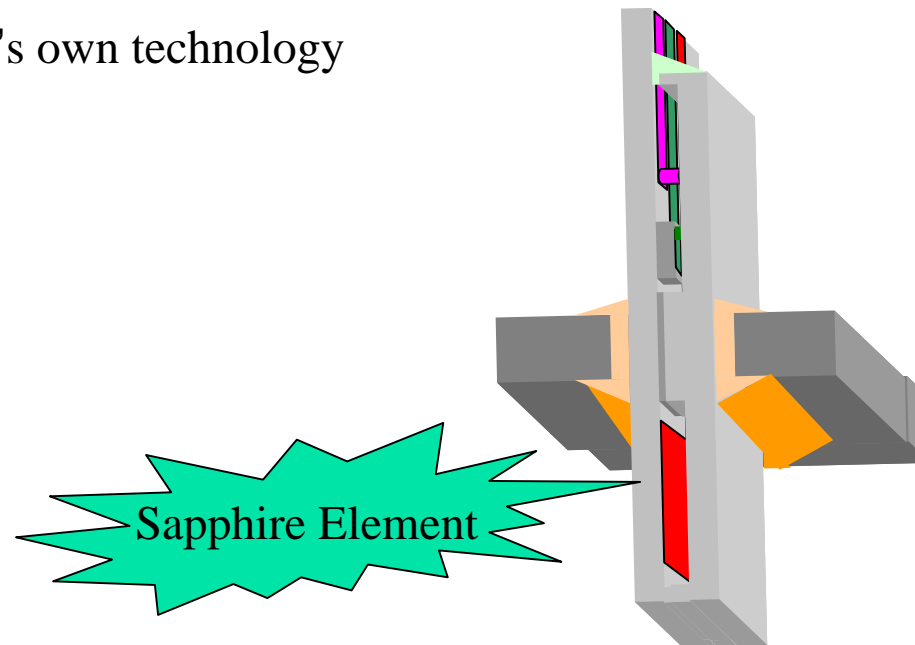
Convert flex pressure of sapphire into electronic signal

Highest stability due to high temperature immunity of sapphire

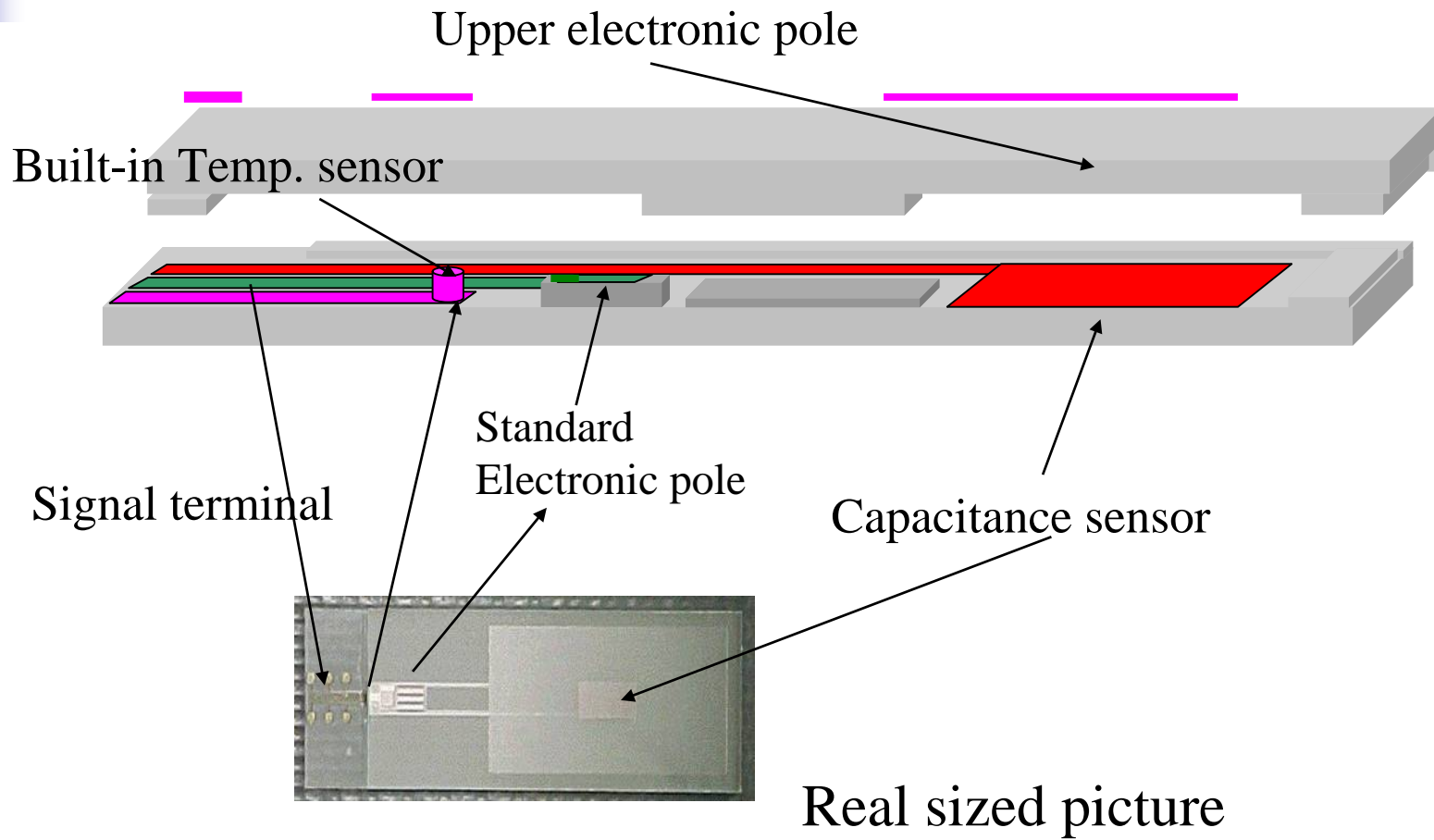
Provide high stability in range from low to high temperature

High anti-corrosiveness

Packaged by Tem-Tech's own technology



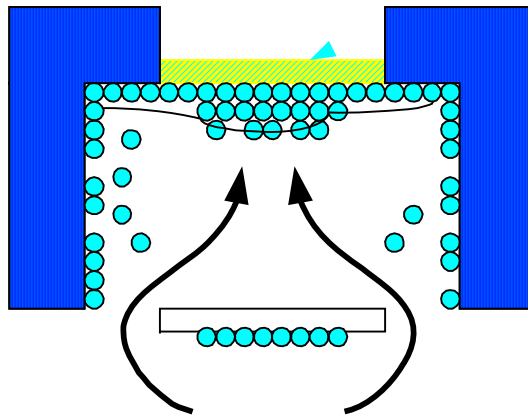
Structure of sapphire diaphragm



Advantage of rectangular diaphragm

Sensing Diaphragm

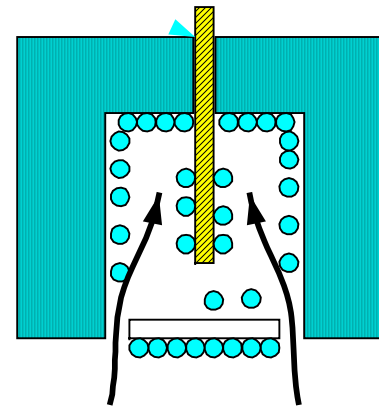
Conventional diaphragm



Since detecting diaphragm is situated at the upper side, Ion matter is blown onto the diaphragm and deposited

When the deposition increased, off-set came out and due to it sufficient sensitivity would lose.

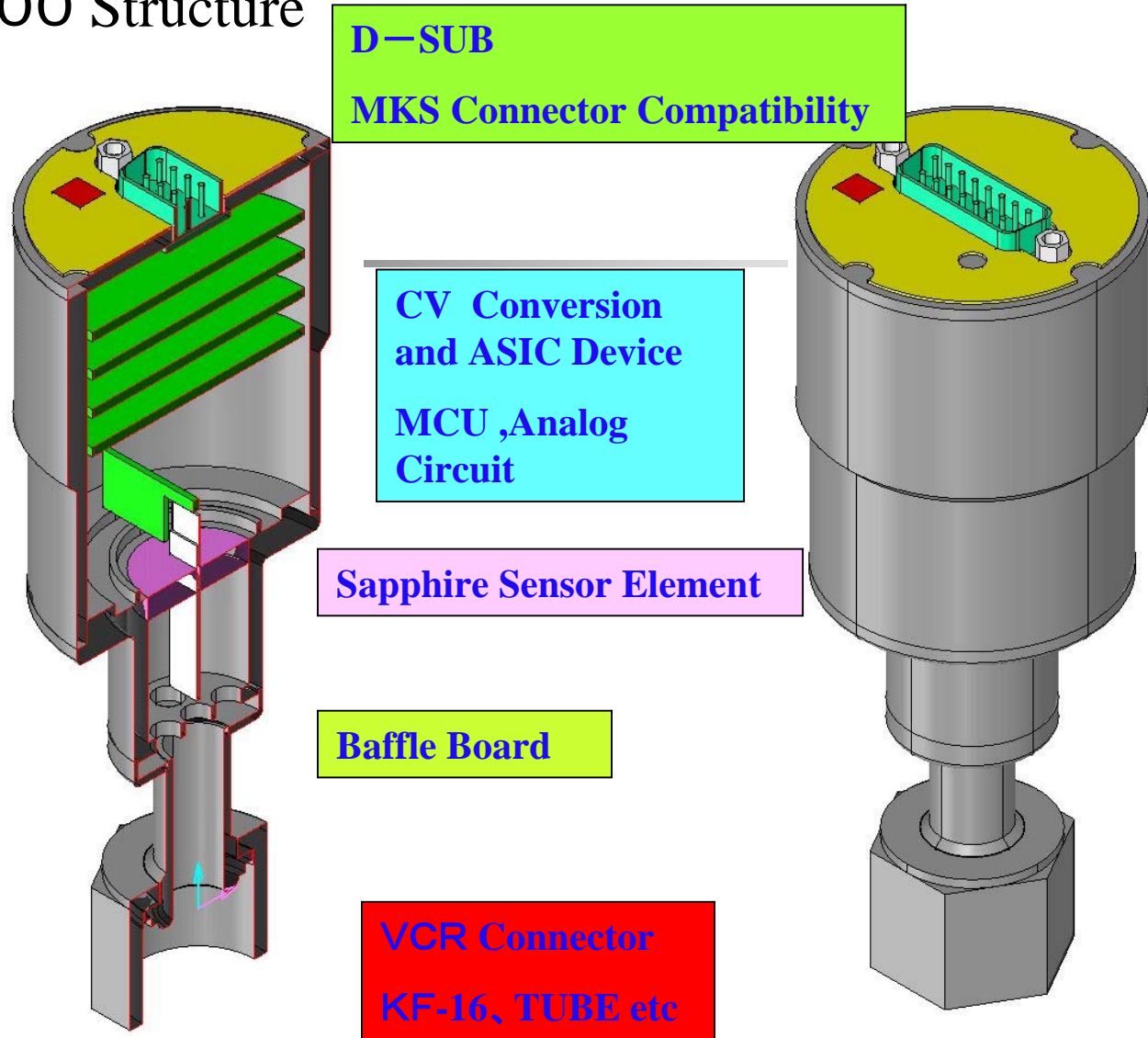
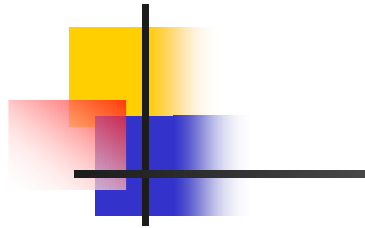
Rectangular sapphire Sensor



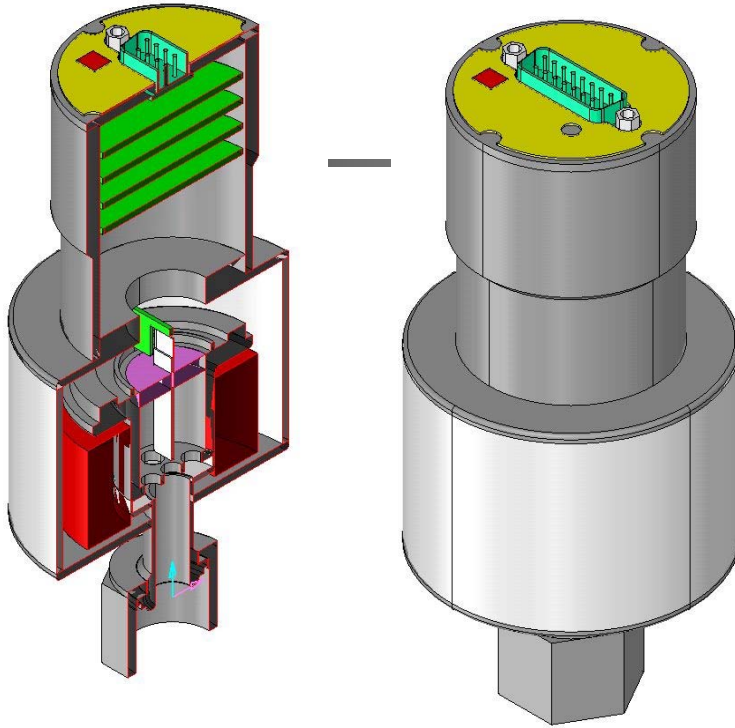
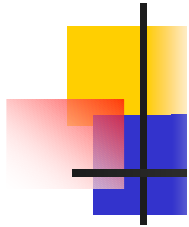
Since the diaphragm is rectangular and situated vertically, less deposition of Ion matter on The diaphragm is seen.

Relative sensing at both sides of diaphragm minimizes off-set.

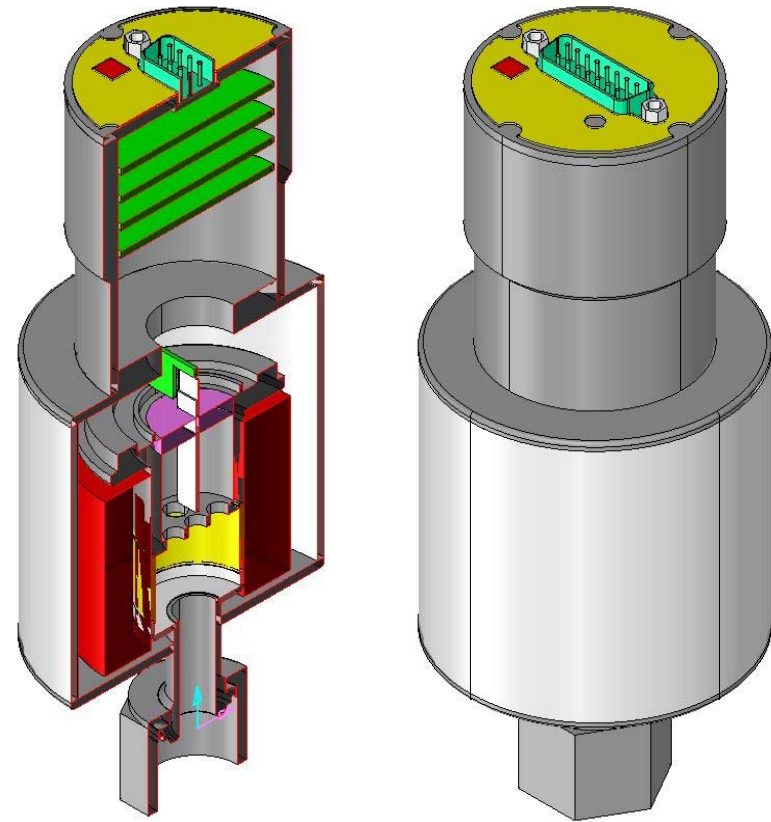
4. SCM2100 Structure



High TEMP Model

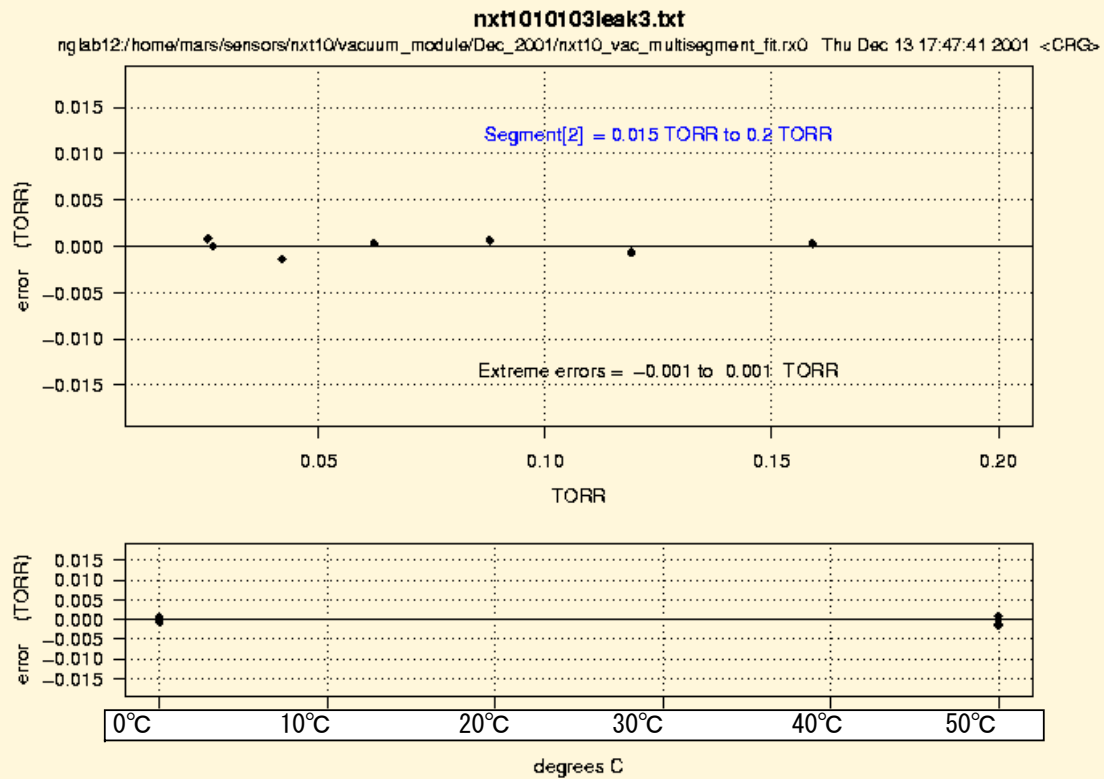


UP to 200°C

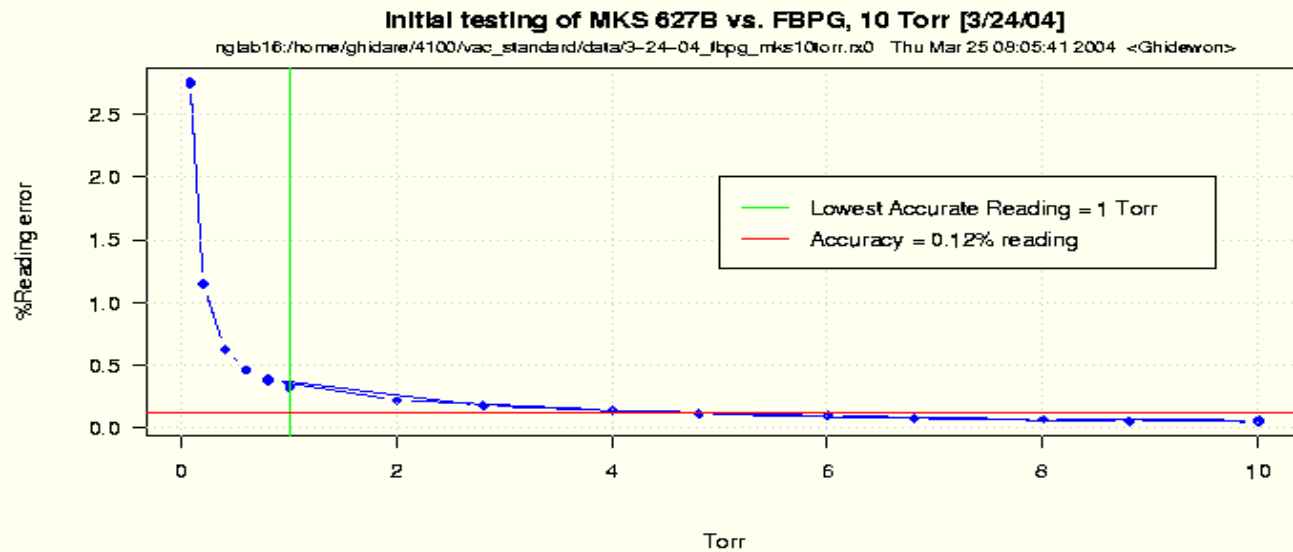
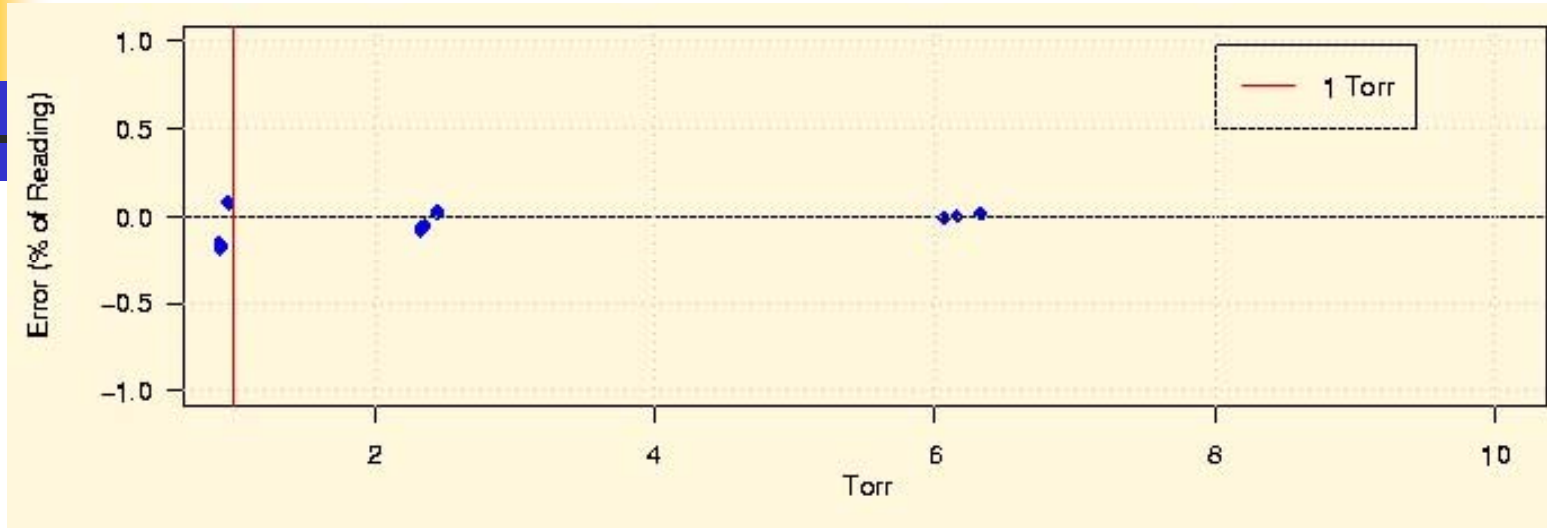


Original Floating
Heater construction

High performance at 0.015 to 0.2 Torr (High vacuum)



10T Range Calibration Data



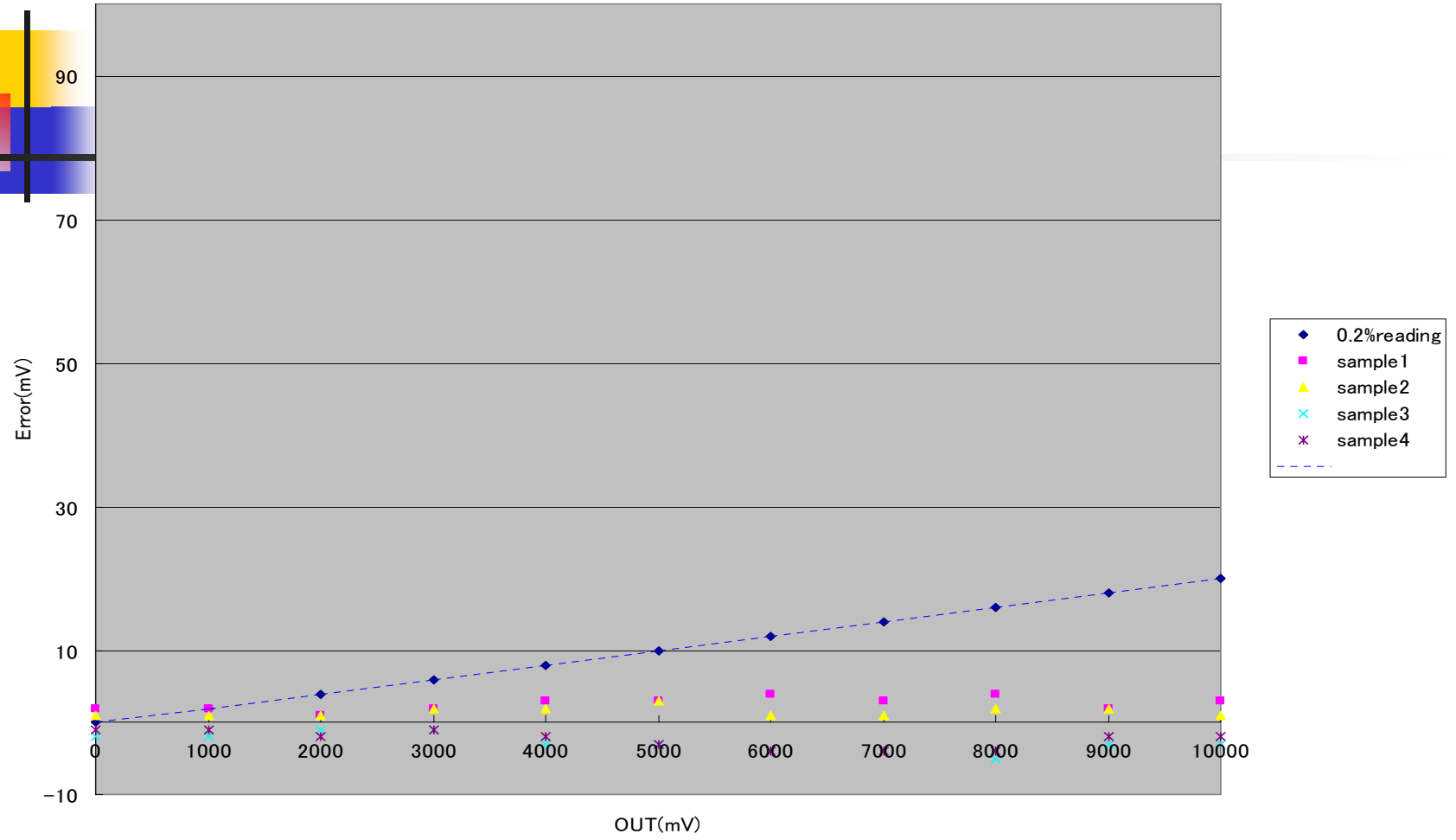
MKS (10Torr)

627B

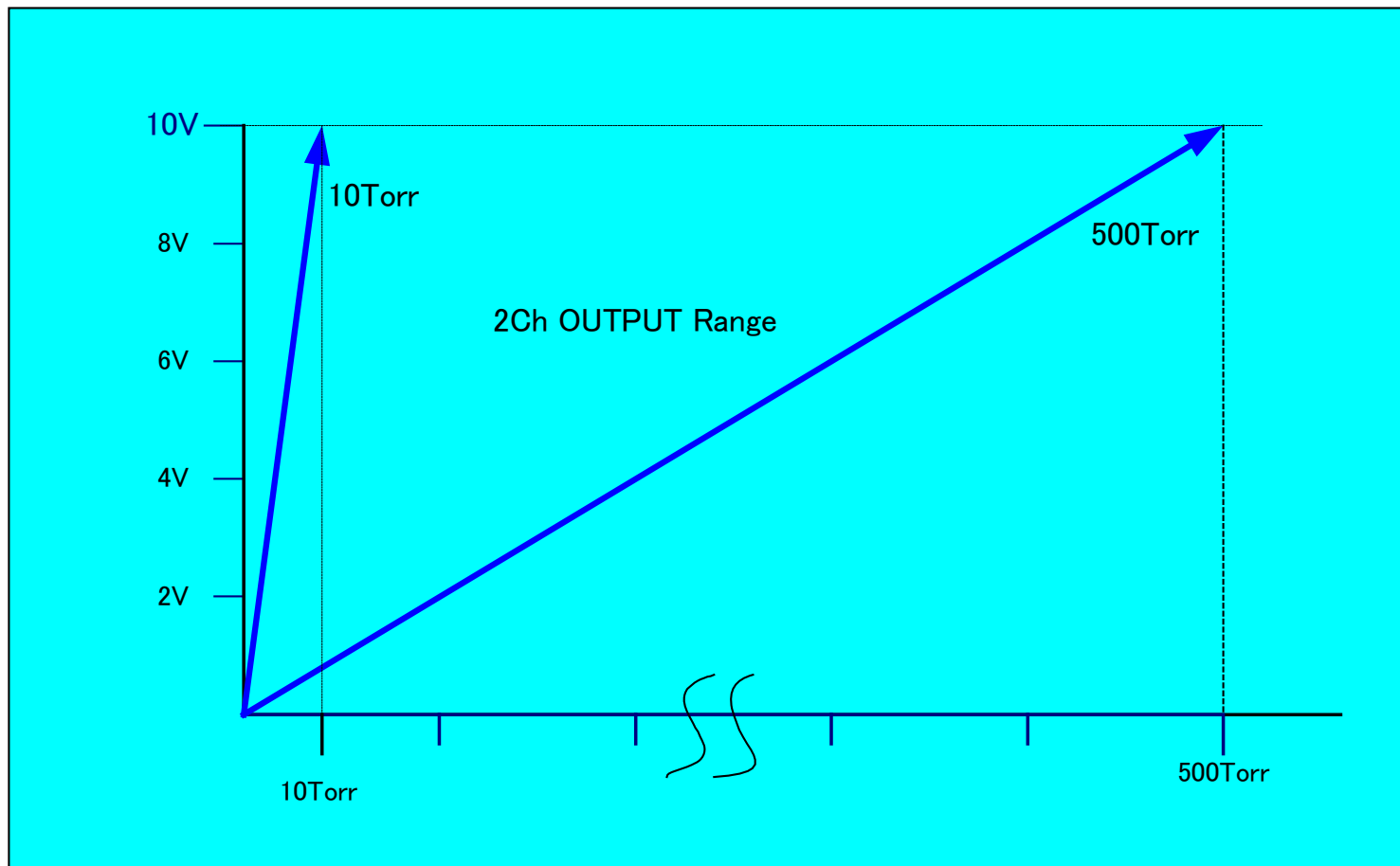
45°C

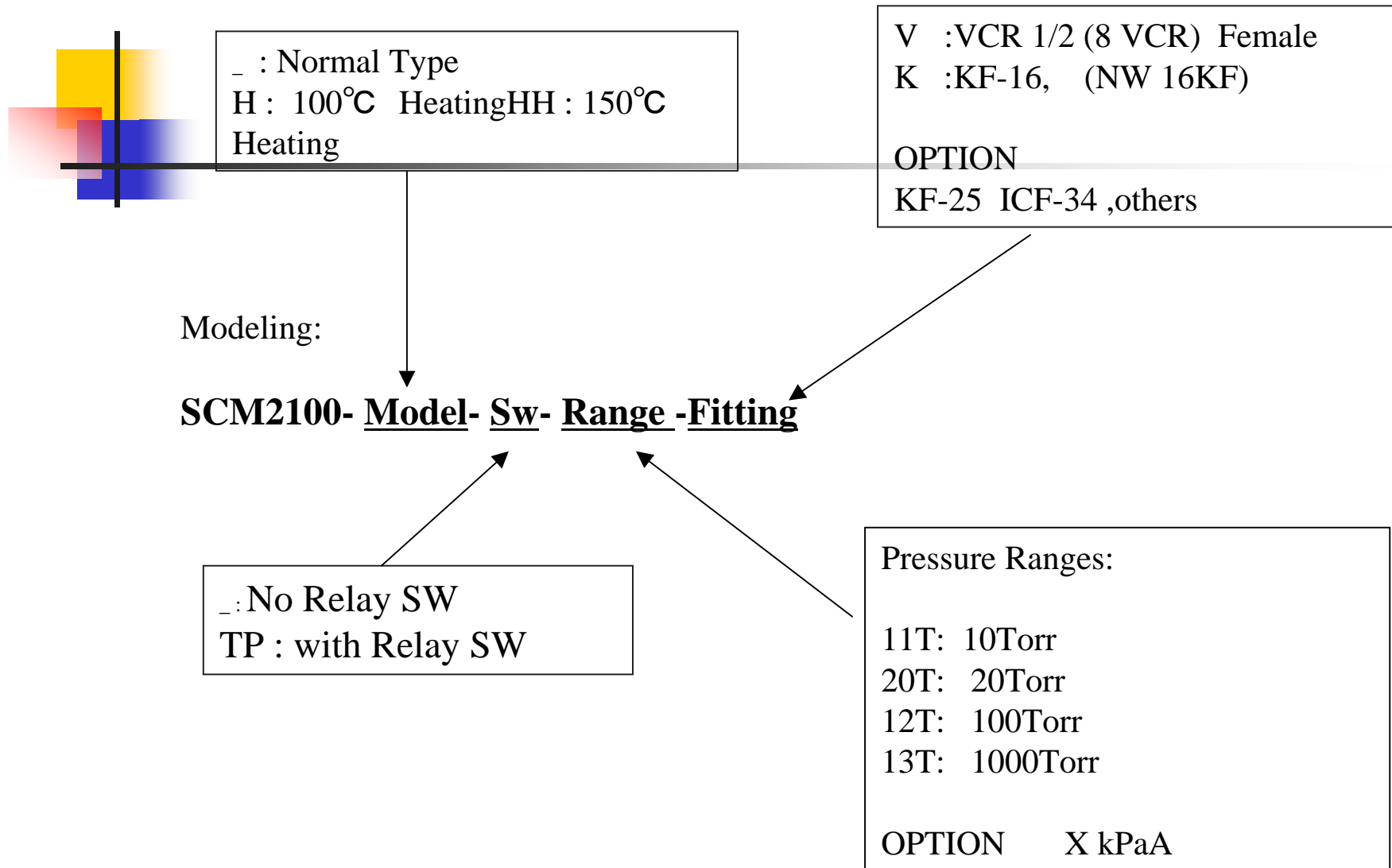
high Accuracy

SCM2100 10Torr



One sensor with very high resolution and stability provides functions of multi-ranges 2ch as option







Piston gauge

Standard pressure gauge DHI RPM4

<http://www.dhstruments.com/>

Calibration Station

4100 C/V Station Plumbing

