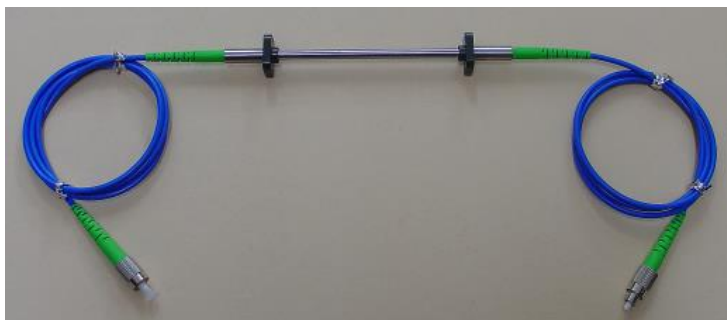
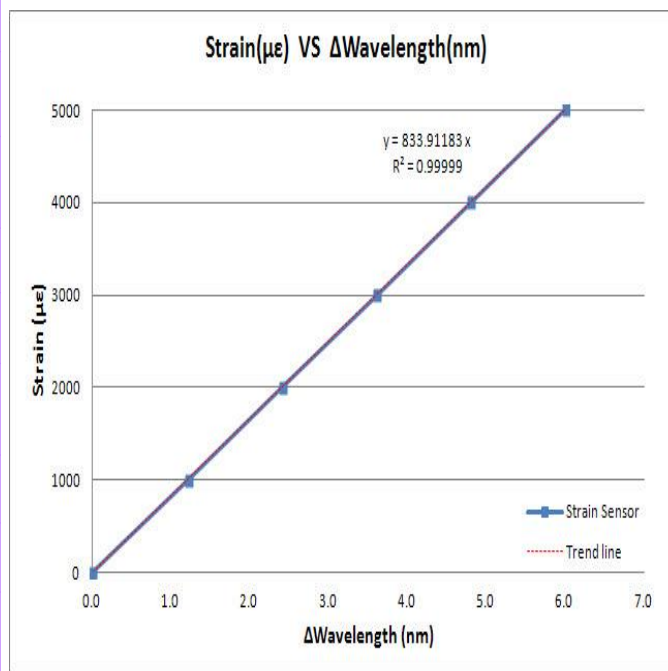


4.3 FBG Embedded Strain Sensor



- ✓ Safety evaluation of structures
- ✓ Long-term strain measurements of the structures
- ✓ Strain and stress measurements of the structures
- ✓ Strain measurements of the structures by external forces
- ✓ Deformation Measurement of basement of the structures or of its body

Model	FBG-ST-320
Gauge length(mm)	100 ~ 1,000 (Depending on user's demand)
Measurement range(μ ϵ)	$\pm 2,000$ (Depending on user's demand)
FWHM(~3 dB point)	$\leq 0.3\text{nm}$
Resolution(%F.S)	± 0.05
Accuracy(%F.S)	$\pm 0.25, 0.5, 1$ (Depending on user's demand)
Wavelength(nm)	1,511 ~ 1,590
Reflectivity(%)	≥ 70
Operating temperature(°C)	-20 ~ 80



Wavelength set division

SET-A		SET-B	
No.	Operating Wavelength range (nm)	No.	Operating Wavelength range (nm)
1	1511.1~1516.2	1	1514.1~1519.2
2	1517.1~1522.2	2	1520.1~1525.2
3	1523.1~1528.2	3	1526.1~1531.2
4	1529.1~1534.2	4	1532.1~1537.2
5	1535.1~1540.2	5	1538.1~1543.2
6	1541.1~1546.2	6	1544.1~1549.2
7	1547.1~1552.2	7	1550.1~1555.2
8	1553.1~1558.2	8	1556.1~1561.2
9	1559.1~1564.2	9	1562.1~1567.2
10	1565.1~1570.2	10	1568.1~1573.2
11	1571.1~1576.2	11	1574.1~1579.2
12	1577.1~1582.2	12	1580.1~1585.2
13	1583.1~1588.2		

- 13 kinds of Set-A, 12 kinds of Set-B.
- Can make a total of 25 kinds from FBG Embedded Strain Sensor.