

## 4.7 FBG Inclinometer



“USA, EU, China, Japan, Canada patents” registered

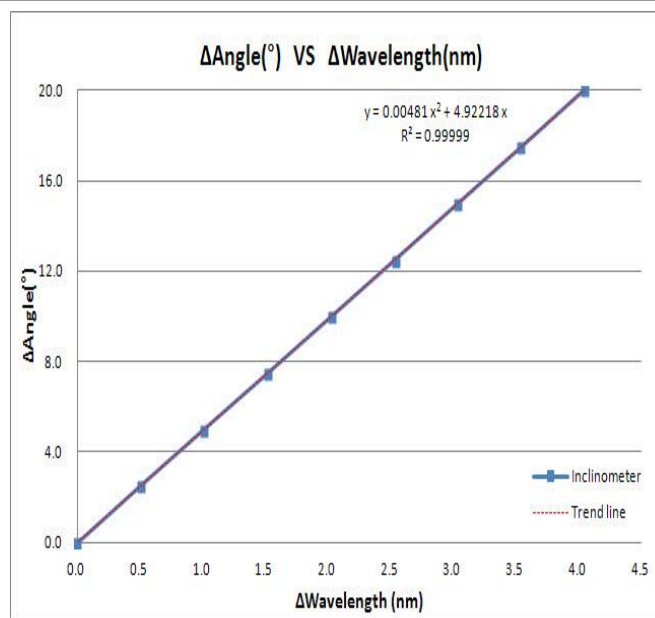
The only supplier in the world that can install sensors in Ø70 ABS Inclinometer Case



- ✓ Long-term measurements for slope displacement below the surface of the earth
- ✓ Measurements for slope displacement of structures during construction or after completion of construction
- ✓ Measurements for the slope displacement of adjacent structures due to the construction of downtown
- ✓ Measurements for the angular variation of adjacent structures due to the construction of downtown
- ✓ Built-in FBG sensor for temperature compensation

Compared with other companies of which FBG Inclinometers are operated broad bandwidth in the range of wavelength by using “TWO FBG” sensors, our sensors can be operated at half of that because they use only “ONE FBG” for inclination measurement. Therefore Interrogator cost can be reduced.

Model	FBG-IN-320
Measurement range	20deg (±10deg) (Depending on user's demand))
FWHM(-3 dB point)	≤ 0.3 nm
Resolution(%)	± 0.05 % Full Scale
Accuracy(%F.S)	± 0.3, 0.5, 1 (Depending on user's demand))
Wavelength(nm)	1,511 ~ 1,590
Reflectivity(%)	≥ 70
Operating temperature(°C)	-20 ~ 80
Sensitivity(pm/°)	200 (Depending on user's demand)
Weight(kg)	≤ 0.8



### 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 Inclinometer.