

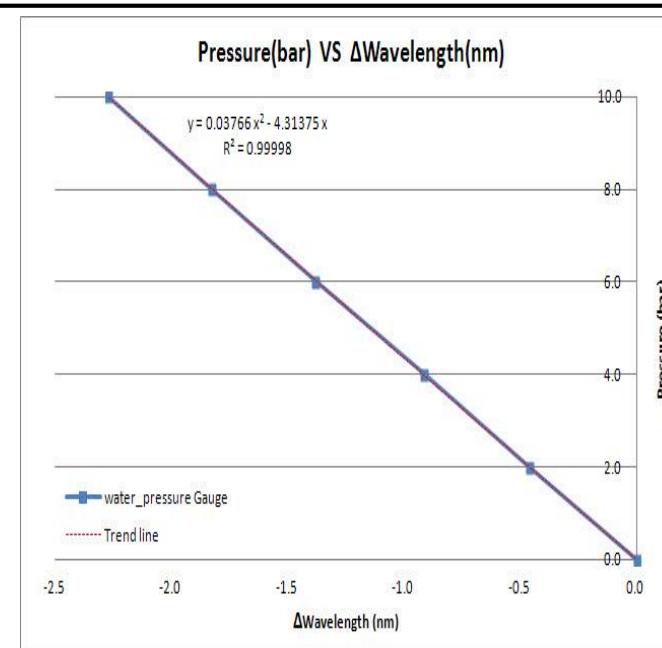
4.9 FBG Water-Pressure Gauge



- ✓ Status measurement of the drainage for excavation
- ✓ Water level measurement in river, reservoirs and wells
- ✓ Leakage measurement of Dams, artificial lakes and flow measurement to the ground water on the banks
- ✓ Pore pressure measurement for decision to a safety factor when works excavation and stacks the soil
- ✓ Water pressure measurement within the pressure pipes, the banks and the perforation
- ✓ Built-in FBG sensor for temperature compensation

Compared with other companies of which FBG Water-Pressure Gauges 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 Water-Pressure measurement and have high accuracy. Therefore Interrogator cost can be reduced.

Model	FBG-WP-320
Measurement range	0~10bar (Depending on user's demand)
FWHM(-3 dB point)	≤ 0.3 nm
Resolution(%F.S)	± 0.05
Accuracy(%F.S)	± 0.3, 0.5, 1 (Depending on user's demand)
Wavelength(nm)	1,511 ~ 1,590
Reflectivity(%)	≥ 70
Operating temperature(°C)	-10 ~ 50
Dimension(mm)	Ø34 * 210



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 Water-Pressure Gauge.