

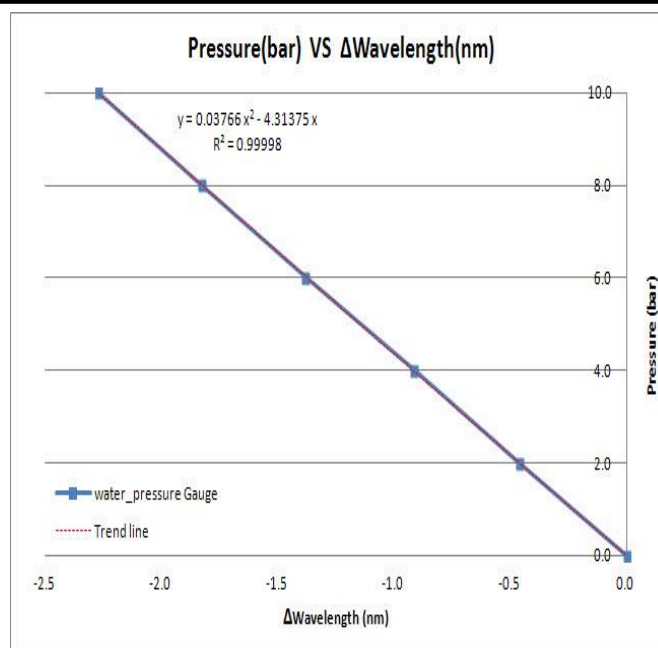
4.9 FBG Water-Pressure Gauge



- ✓ 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.