

IP MARKETPLACE

CONNECTING INNOVATION TO YOUR BUSINESS

TECH OFFER

OPTICAL SETTLEMENT SENSOR



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MEGA-TREND

- **SMART Cities and SMART Infrastructure**
- **Infrastructure Development: Power, Water and Transport**

TECHNOLOGY READINESS LEVEL (TRL)

- **TRL 5 (Lab Prototype - Field Testing)**

PATENT/ GRANTED NUMBER

- **MY-183549-A**

▶ TECHNOLOGY OVERVIEW

The present invention discloses an in situ optical settlement sensor comprises three hydrogen-doped Fiber Bragg Grating (FBG) optical fiber, six fiber holders, three 3D mechanical arms and a dome-shape protection case. Besides, the present invention also discloses a method to fabricate the in situ optical settlement sensor. The in situ optical settlement sensor fabricated according to this method is capable of detecting 3-dimensional micro-displacement of the supporting columns of existing buildings and infrastructures to predict the foundation settlement up to 15 mm with 0.08 mm resolution.

CONTACT US!

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