



*Smartec* is a leading supplier of fiber-optic sensors providing measurement and structural health monitoring systems:

- SOFO (Long gauge sensors)
- Fiber Bragg Gratings (FBG)
- Fabry Perot
- Distributed Brillouin/Raman Scattering

**Al Bayan Technical Equipment L.L.C** are the authorized dealers for Smartec products in GCC. Since 1996, Smartec have supplied systems to monitor hundreds of structures, including:

- Buildings
- Bridges
- Tunnels
- Dams
- Pipelines

Smartec offers several engineering services to support customers in the design, implementation and management of both simple and complex Structural Health Monitoring (SHM) systems. This includes everything from the selection of the right sensors, data acquisition units and data management software to the definition of strategies for data analysis and sensor placement.

Smartec's Solution & Services team has considerable field experience to support you in the management and execution of your monitoring projects.

In particular, we offer the following services:

### **System Design**

- Risk / Opportunity analysis in collaboration with design engineers and owners
- Establish expected responses to degradation (e.g. corrosion, cracks, leak) or reserve capacities (e.g. better material properties or load carrying capacity)
- Design of the SHM system and selection of the appropriate sensors to meet the objectives

### **Installation, Operation and Maintenance**

- On-site support and training on installation and testing of the sensors and data acquisition systems - either with your staff, our team or our world-wide qualified local partners
- Remote support for troubleshooting and system performance monitoring
- Extended warranty, hot-swap systems and regular preventive maintenance

### **Data Management**

#### ***Al Bayan Technical Equipment LLC,***

*Room 108, Al Madina Supermarket Building, Latifa Bint Hamdan St., Back side of Al Khail Mall, Al Quoz Industrial 4, Dubai - UAE  
Tel. No.: 04 268 9524, Email.albatech@eim.ae.*

- Commissioning and programming of data-loggers and data management systems
- Generation of warnings and alerts, based on complex conditions
- Real-time advanced data representation
- Remote access configuration

### Data Analysis

- Data validation and data quality check
- Data interpretation in line with the original criteria established in cooperation with the lead engineer



FIBER OPTIC STRAIN SENSORS



FIBER OPTIC DEFORMATION SENSORS



FIBER OPTIC TEMPERATURE SENSORS



FIBER OPTIC PIEZOMETERS



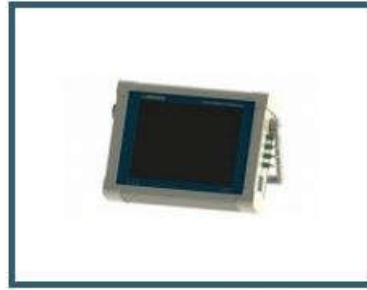
OTHER FIBER OPTIC POINT SENSORS



DISTRIBUTED STRAIN SENSORS



DISTRIBUTED  
TEMPERATURE



FIBER OPTIC READOUTS



SOFTWARE



FIBER OPTIC ACCESSORIES



COMPLEMENTARY SENSORS

For more details contact [albatech@eim.ae](mailto:albatech@eim.ae) or visit <http://www.smartec.ch/>

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