

 Emirates
DuSense

دبي لحلول الاستشعار

Geotechnical Instrumentation



Sensing Safety for the Middle East



www.dusense.ae



+97148135972



info@dusense.ae

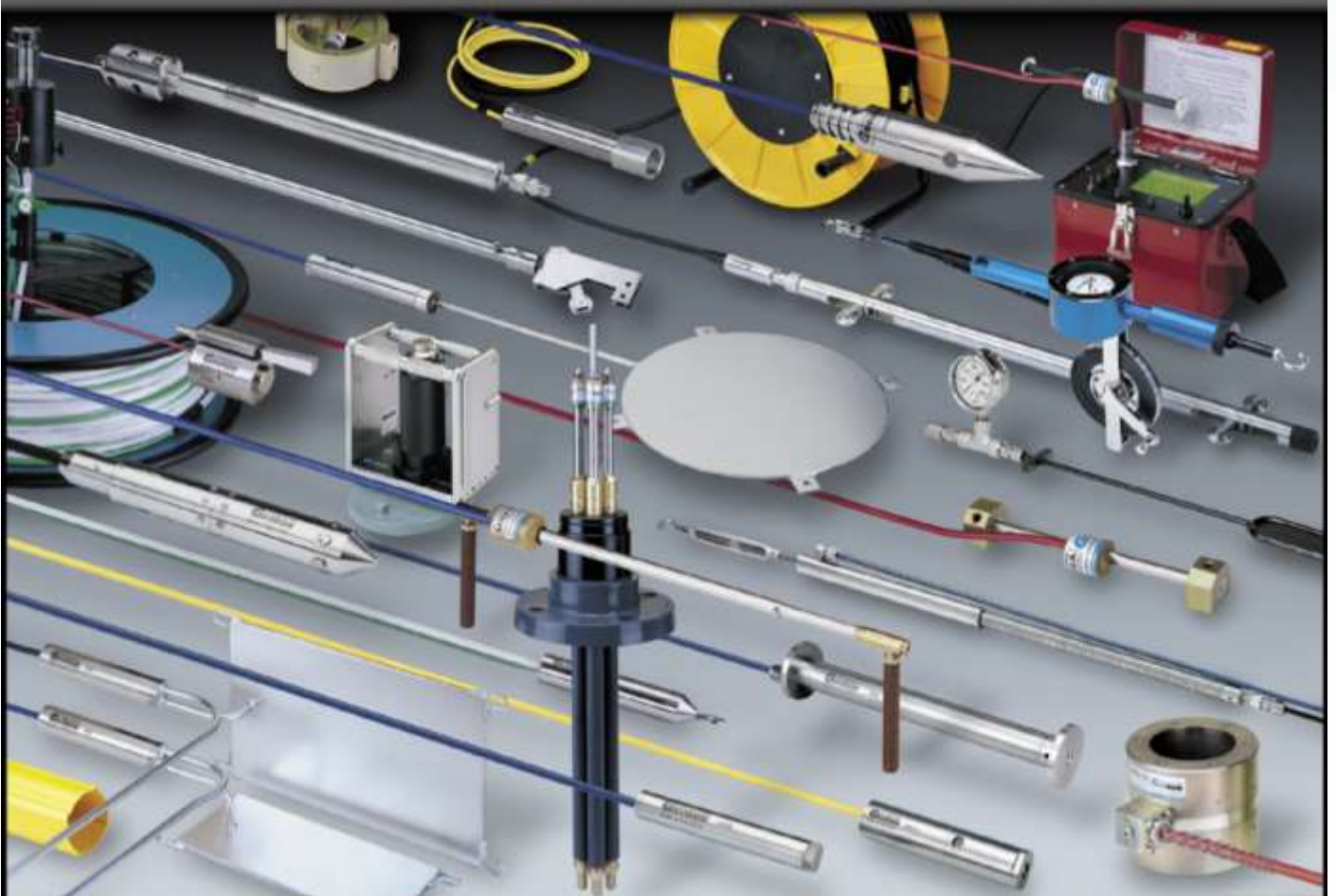
Due to our team's extensive project experience, Geotechnical Instruments are major part of the DuSense portfolio, from our early years of involvement with Offshore and Nuclear Structural Monitoring we have made natural progression in to numerous high profile Ground Engineering and Bridge Monitoring projects around the world. We can offer the complete professional service from procurement to commissioning of whole range of geotechnical instrumentation.

In the Middle East region our expertise extends across entire range of projects where we have spent the last 15 years closely working with the Major Civil and Foundation Engineering Contractors, we have accumulated hands-on experience with the design and testing of compression piles up to 10,000 tonnes for some of the **major projects including the World's Tallest Building, Burj Khalifa.**

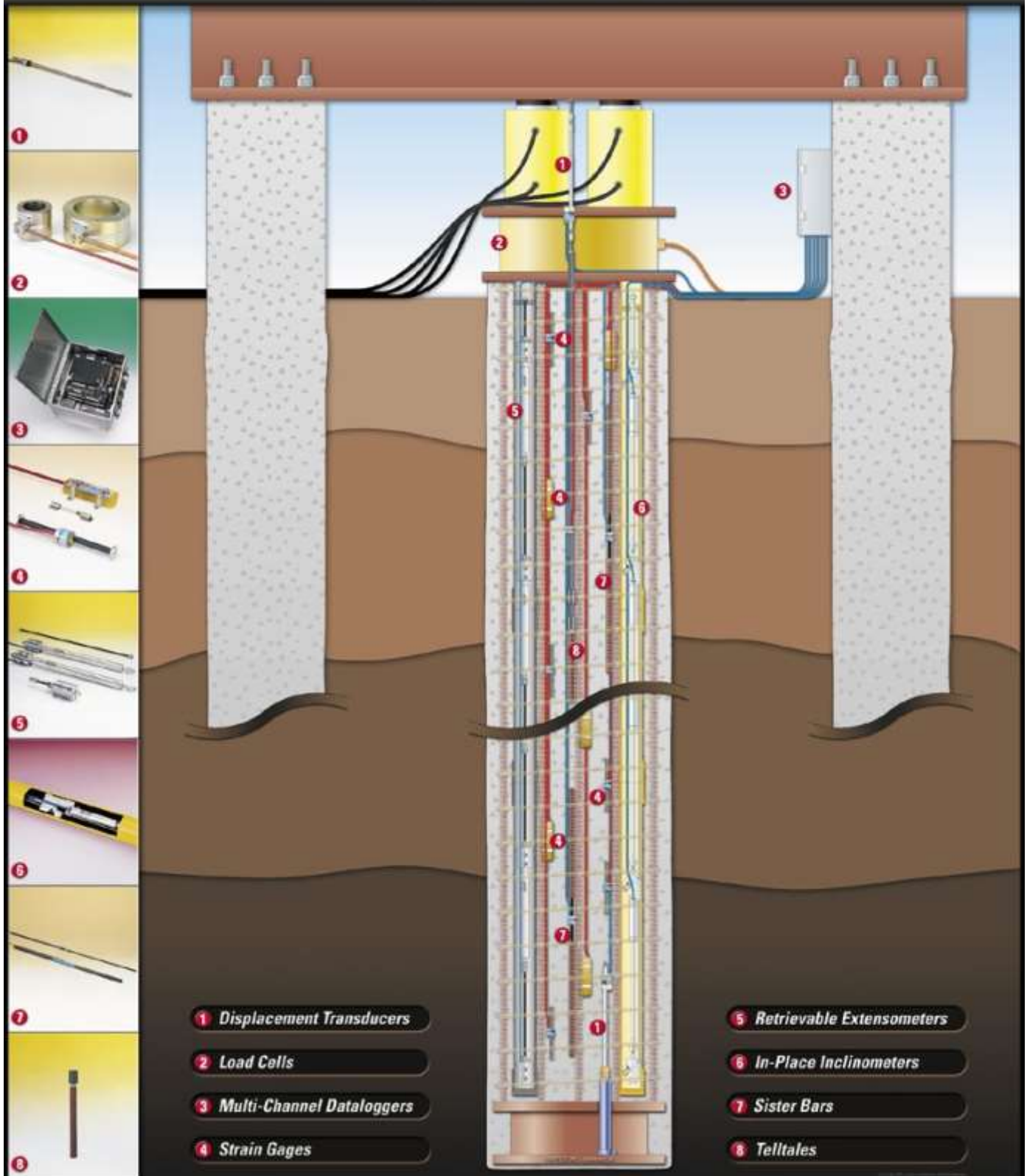
Single or Multi channel systems are everyday tasks for DuSense, if your consultants or engineers require web-enabled monitoring systems to update and alert them to any variation of site conditions we can handle it.

Movement monitoring is accomplished by a whole range of different instruments, from simple dial gauges, Automatic Total Stations, right up to much more complex 3D Satellite Imagery and by working closely with **our International Partners DuSense are proud to be able to offer the "the complete solution" for settlement and movement monitoring of almost any type of structure.**

Geotechnical Instrumentation



Pile Testing Instrumentation



Deep Excavation Monitoring Instrumentation

1 Single-Channel Dataloggers
 2 Piezometers
 3 In-Place Inclometers
 4 Load Cells
 5 Strain Gages
 6 Extensometers
 7 Tiltmeters
 8 Crackmeters
 9 Multi-Channel Dataloggers
 10 Portable Inclometers
 11 Jack-Out Pressure Cells
 12 Sister Bars

Tunnelling Instrumentation

1 Single-Channel Dataloggers
 2 Piezometers
 3 Extensometers
 4 Load Cells
 5 NATM Pressure Cells
 6 Strain Gages
 7 Tiltmeters
 8 Crackmeters
 9 Multi-Channel Dataloggers
 10 In-Place Inclometers
 11 Tape Extensometers
 12 Convergence Meters

Concrete Dam Instrumentation

The diagram illustrates the instrumentation of a concrete dam. It shows a cross-section of the dam with water on the left and a spillway on the right. Various sensors and instruments are indicated by numbered red circles (1-12) throughout the dam structure and its foundation. The instruments are listed in a grid below the diagram:

1 In-Place Inclinoimeters	4 Multi-Channel Dataloggers	7 Tiltmeters	10 Temperature Gages
2 Extensometers	8 Piezometers	9 Crackmeters	11 Embedment Strain Gages
3 Pendulum	6 Load Cells	5 Embedment Jointmeters	12 Earth Pressure Cells

Earth Dam Instrumentation

The diagram illustrates the instrumentation of an earth dam. It shows a cross-section of the dam with water on the left and a spillway on the right. Various sensors and instruments are indicated by numbered red circles (1-12) throughout the dam structure and its foundation. The instruments are listed in a grid below the diagram:

1 Soil Strain Meters	4 Temperature Gages	7 In-Place Inclinoimeters	10 Multiplexers
2 Settlement Sensors	8 Earth Pressure Cells	9 Inclinoimeter Probes	11 Multi-Channel Dataloggers
3 Heavy Duty Piezometers	6 Piezometers	5 Portable Readout Boxes	12 Seepage Monitors