



MODELS
0DMS2TILT10

DMS Tilt

Sensor

- Self-compensated
- MEMS inclinometer
- Thermistor

Temp. operating range

from -30°C to +70°C

Number of axes

Biaxial

Power supply

5v

Measuring range

±2.5% , ±5% , ±10%

Protection

IP66

Accuracy

±0.006° for ±5° range



MODELS
0DMS0GWLOG

DMS Gateway

Memory

512MB LPDDR2 SDRAM

Network interfaces

Integrated 3G /4G Modem & Antenna (HSDPA,EDGE,GPRS)

quad band Ethernet over USB 2.0

Long range RF Module

ISM Band 902 – 928MHz @ 14dBm



- **DMS Analogue**
- **DMS Vibrating Wire**
- **DMS Digital**
- **DMS Tilt**
- **DMS Gateway**

Data Mobile Solution is a complete wireless solution for automatic monitoring of geotechnical and structural instruments.

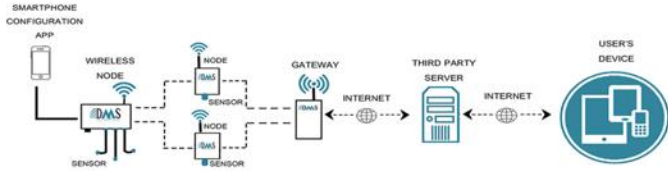
- Long-range communication of over 15 km
- Truly low-power, 5 years of unattended runtime
- Remotely monitor hard - to - access infrastructures
- Eliminate the need for manpower
- User - friendly web software

Battery Life Time

Number of Batteries	Expected Battery Life		
	5 min Sampling	15 min Sampling	1 hour Sampling
1	6 months	2 years	5 years
2	6 months	2 years	5 years

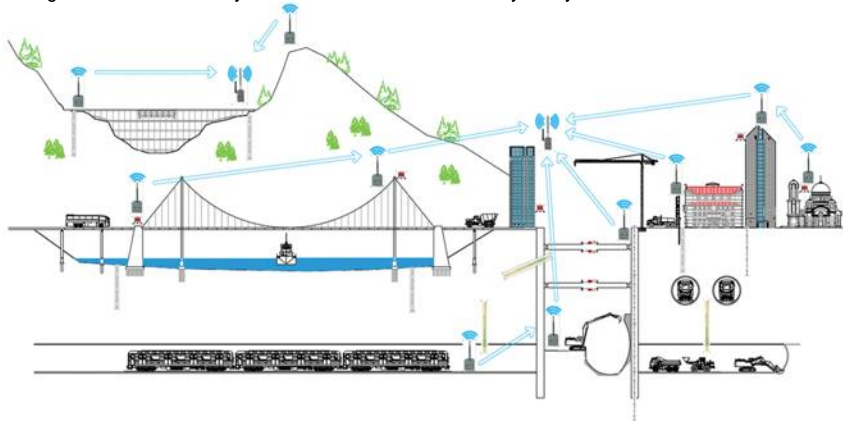
Data Mobile Solution

DMS (Data Mobile Solution) is composed of a number of nodes to which instruments are connected, and a gateway communicating with nodes through long range radio. Nodes are configured through an Android APP while the gateway have a web server on-board for the set up.



Why use Mesh?

Even if a Node can't reach the Gateway directly, it can still send its data to the gateway via other Nodes in the network. This is possible with DMS Mesh, a patent-pending, wireless mesh data collection protocol that ensures reliable sensor data collection even in the harshest of environments. like in deep tunnels and very large construction sites without using numerous gateways and signal amplifiers. It automatically mitigates well-known wireless problems like signal blockages and interference, allowing the Nodes to reliably send their data to the Gateway every time.



Moreover, DMS is a low power utilization framework that can reach up to 5 years battery life. The gateway can push data on a FTP server; remote connection to gateway is allowed for data download and set up.

15 km
in line-of-sight environments

3 km
in tunnels and underground setting

4 km
in cities and urban environments



MODELS

- 0DMS0AN01** 1 channel
- 0DMS0AN04** 4 channels

DMS Analogue

Type of measurement	Accuracy
● Voltage (Uni-axial) (mono and Biaxial)	Voltage ±0.05% FS
● 4-20 mA Current loop (2 wires)(2 sensors)	Current Loop 0.05% FS
● 4-20 mA Current loop (3-4 wires)(1 sensor)	Potentiometric ±0.025% FS
● Thermistor	Wheatstone bridge ±0.1% FS
● Wheatstone Bridge (6 wires)	Operating temperature -30 to +70°C
	Protection IP66
Measuring range ±5VDC to 1.25, 4-20 mA	Power Supply 5v/12v/24v



MODELS

- 0DMS0VW01** 1 channel
- 0DMS0VW08** 8 channels

DMS Vibrating Wire

Type of measurement	Accuracy
● Vibrating wire sensor	(-40° to +85°C) 0.015% FS
● Thermistor	
Measuring range 300 Hz to 8000Hz	Operating temperature -30 to +70°C
	Protection IP66



MODELS

- 0DMS0DG03** three protocols ports

DMS Digital

- Digital Inputs**
- RS232 Serial Port
 - RS485 Full/ Half Duplex Serial Port
 - 2 SDI-12 Bidirectional Ports or Programmable interrupt driven GPIO
 - Digital communication supported sensors

Operating temperature

-30 to +70°C

Protection

IP66