MSP RAPIDTM ADMS

ENHANCING SAFETY THROUGH MONITORING SOLUTIONS



MONITORING SOLUTION PROVIDERS PTE. LTD. www.mspsystem.com



SINCE 2002



We are Singapore based company

specialize in different types of deformation monitoring services



Established since 2002

MSP has an extensive experience on structural monitoring since Locally and globally



Our Services

We develop and customize system and software and provide solution for different requirements for different types of monitoring

PRECISSION AND TIMELINESS

ARE THE BASIS OF MSP

COMPETENCE

What is structural monitoring?



Monitoring is used to determine the movement & Deformation of any natural or man-made structure due to construction, environmental and structural preservatory. Early detection of such movement and deformation will serve as a warning to call for risk and disaster management

MONITORING IS ONE OF THE ESSENTIAL APPLICATION IN SAFETY ENGINEERING PRACTICES

Engineers and surveyors require highly precise and real-time deformation monitoring data in order to effectively analyze every engineering project. To meet such need, Monitoring Solution Providers (MSP) developed a complete package for monitoring different types of monitoring.





The collapse of the Hotel New World occurred on 15 March 1986, and was Singapore's deadliest civil disaster since the Spyros disaster on 12 October 1978



On April 20, 2004, a cave-in at the then Circle Line worksite caused a section of the Nicoll Highway to collapse.

Image from mothership.sg



Ch. 26 Building and Construction Law A. Building Control Act (Chapter 29)

(1) Standards of safety and good building practices

The Building Control Act is a prescriptive code. It prescribes standards of safety and good building practice. The legislation provides a blueprint to control legally the construction of building works, the monitoring of existing structures with powers to deal with them where safety is in issue. It is well known that the current legislation was a direct consequence of the Hotel New World collapse.

OUR SOLUTION

To provide a comprehensive solutions for high accuracy and reliable monitoring; MSP developed a full monitoring solution system



Remote Automatic Precise Intelligent Detector

Automated Deformation Monitoring System

MSP's products monitors the safety of various civil engineering projects in a wide variety of application











MSP RAPID[™] ADMS PRECISE ROBOTIC MONITORING SOLUTION

MSP RAPID[™] ADMS FEATURES REMOTE, AUTOMATED, PRECISELY AND INTELLIGENT DETECTION OF ANY DISPLACEMENT OF ANY MEASURED POINTS









TARGET PRISMS / REFLECTORLESS

Target prisms are installed within the monitoring zone. And Reference prisms are required to be installed on a uninfluenced zone.

ROBOTIC TOTAL STATION

Measures the target prisms and gather data such as the Angle and Distance.

MSP IU Control Unit

Hardware components and control box which contains:

-Cabling system -Communication system (routers) -Security system (locks and cage) -Power source

MSP RAPID ADMS

Acts as the data collector and takes control of the Robotic Total Station.

Transmit the data over the Cloud for automatic data processing

SAMPLE OF MONITORING SETUP



Total Station and Prisms

Are mounted and secured into a fixed position

MSP IU Control Box

Will house the power supply, converters, routers and PC (optional)

Data Collection

The total Station will measure the prisms and collect the measurement data (Angle and Distance)



SYSTEM WORKFLOW







DATA COLLECTION SOFTWARE:

MSP RAPID[™] PC MSP RAPID[™] MOBILE +

Image: Sector Project Image: Sector Project Otherwarder 2018 11.14.277.041 Image: Sector Project Image: Sector Project Image: Sector Project Image: Sector Project

ONLINE REPORTING:

MSP WEBPRO WEBPRO.MSPSYSTEM.COM

AUTOMATIC SMS ALARM NOTIFICATIONS



35 C -



SAMPLE SMS ALARM CONTENT

PROJECTNAME, Level 1 Alarm, STN1, Cycle 03, 03-May-2019,16:00. TARGET01: dZ: - 15.00mm, AL: 10:00mm, WSL: 20.00mm





Tunnel Monitoring



Building Monitoring



Roads & Highway



Slope/Mining monitoring



Bridge Monitoring



Dam Monitoring