

CONSTRUCTION MONITORING SENSORS

Convergence Monitors – displacement (mm)
Crack and Joint meters – (mm)
Extensometers – (cm)
Fibre optic strain gauges (μm)
GNSS- Global Displacement/ Deformation (mm)
Inclinometers- Tilt ($^\circ$) displacement (mm)
INSAR remote sensing - deformation (mm), Imagery
Laser Scanning – Deformation (mm)
Load Cells – Pressure (KPa)
Noise Monitors - dB(A)
Piezometers – Pore water pressure- Level (cm) Pressure (KPa)
Pressure cells – Earth pressure (KPa and MPa)
Settlement plates (mm)
Shape Accel Arrays- Tilt ($^\circ$) displacement (mm)
Stress meters – Stress (KPa)
Surface displacement Markers (mm)
Temperature probes ($^\circ\text{C}$)
Tilt sensors – Tilt ($^\circ$) displacement (mm)
Total Stations – Displacement/ Deformation (mm)
UAV/ drone mapping / inspection – Quantities and deformation (mm), Imagery
Vibration – Velocity PPV and VDV (mm/s) acceleration (mm/s²)
Video camera CCTV- Imagery
Water Level sensors – Level (cm) Pressure (KPa)
Weather Stations – air temperature, air pressure, wind, humidity, rainfall.