

TRANSPORT MONITORING SENSORS

Accelerometers- acceleration (mm/s^2)

Air Quality- (ppm)

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)

Pressure transducers – (KPa)

Rail deformation sensors (mm)

Seismic Accelerometers- acceleration (mm/s^2)

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)

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