

## Structural Health Monitoring – Case Story

### Background

**Location:** Norway

**Structure:** Bridge

**Measurement:** Displacement (seat/abutment)

**Purpose:** Monitoring bridge displacement at varying temperatures to foresee cracks generation and perform general diagnosis



### Integration

**Installation date:** 16<sup>th</sup> December 2021

**Power source:** Battery

**Data acquisition:** Wireless cloud-based

**Sensors:** 2x DS100 sensors were installed at either end of the bridge between abutment and seat to measure relative displacements



### Results

**Live data:** Click [HERE](#) (Sensors 783 and 786)

**Historical data:** Choose an earlier date in the above link and click “Reload”

**Data interpretation:** Each unit at Y-Axis corresponds to 76 $\mu$ m relative displacement between abutment and seat of the bridge

