

OVERVIEW

Transmission Dynamics offers a state-of-the-art crack propagation detection system. The system comprises of a number of standalone miniature wireless transmitters connected to bespoke ladder crack propagation gauges. The transmitters are powered by an internal battery, and wirelessly communicate with the gateway, forwarding information to the Cloud. The system allows near-instantaneous reporting of crack growth, and thus provides truly remote crack detection monitoring and automated reporting system.



Whenever a crack grows, an automated email and/or SMS notification is sent to key stakeholders, including data showing current crack length, and the rate of crack growth. Whenever any crack grows by more than a predefined amount within a given length of time, a red alert code is sent out, allowing maintenance personnel to promptly investigate the issue.

GENERAL SPECIFICATION

Approx. Dimensions	42 x 26.7 x 10.9 mm
Weight	16g
Battery Life	Up to 2 years (depending on sampling rate and application)
Communication	2.4 GHz license-free band
Wireless Range	25+ m
Operating Temp. Range	-40 °C to 85 °C
Surface Type	Various



System applications include:

- Rail
- Highways
- Offshore
- Power Generation
- Mining
- Grinding Mills
- Bridges
- Construction
- Pressure Vessels
- Cranes
- Pumps

