



The InStar System

comparison with existing SHM solutions

	Visual inspection	Constantan strain gage	Fibre Bragg Grating	InStar System
Constant and high-precision measurement	✗	✓	✓	✓
Strain + temperature measurement	n/a	✗	✗	✓
Tilt measurement	✓	✗	✗	✓
Seismometer	n/a	✗	✗	✓
Stand alone solution	✓	✗	✗	✓
Extended measuring point	✓	✗	✗	✓
Unlimited resistance to external agents	n/a	✗	✗	✓
No physical connections	n/a	✗	✗	✓
Possibility of wireless data transmission	n/a	✓	✓	✓
Ability to create a Mesh Network	n/a	✓	✗	✓
Standalone power supply	n/a	✓	✗	✓
Easy application	n/a	✗	✗	✓
Low Cost	✗	✗	✗	✓
Applicable on existing structures	✓	✓	✗	✓