

Smart Barrier Node



FEATURES AND BENEFITS:

- INTERNAL ACCELEROMETER WITH ADVANCED SIGNAL PROCESSING
- WIRELESS OPERATION USING CAT-M1
- ALARM CAPABILITY WHEN IMPACTS ARE DETECTED
- MEASURES WIRE ROPE TENSION
- TAMPERING DETECTED IN REAL-TIME
- INTERNAL GPS FOR POSITIONING
- PATENT PENDING
- MANUFACTURED IN AUSTRALIA

The Viotel Smart Barrier node features a unique patented design for quick installation crash barriers and fences to detect impacts. The node can measure the tension of the wires using a detachable strain band. Self manage configuration via [myViotel](#) device manager & dashboard..

The Smart Barrier node uses an integrated solar panel and rechargeable battery, and an internal LTE-M modem for connectivity. The asset status is uploaded regularly, and whenever an impact is detected.

Specifications

Accelerometer	3 component – triaxial
Tension Measurement	Combination of tension in two wires
Tension Full-Scale	100 kN (3m spacing between posts, 5cm wire deflection)
Attachment to Barrier	Steel cable ties to upper and lower wires & steel band for tension measurement
Data Uploads	Hourly and whenever impacts are detected.
Tilt Tolerance	180° (Omnidirectional)
Dimensions	110mm x 150mm x 60mm (W X L X D)
Weight	0.3kg
Operating Temperature	-10°C to 65°C
Power	Integrated solar panel with rechargeable battery
Enclosure features	ASA Plastic, IP67

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