N2® REMOTE MONITORING FOR BELT CLEANERS

Monitor conveyor belt cleaner blade tension and wear life from your desktop or mobile device

N2® Position Indicator

- Monitors the condition of belt cleaners by measuring the position of the blade

- Sends notifications when re-tensioning or replacement is needed, reducing the need for maintenance checks

- Estimates blade life - predicts when to order the replacement blade

- Provides alerts through mobile app when abnormal changes in position or temperature occur

- Retrofits directly to existing mainframes

✓ **Reduces safety risks**

✓ **Saves time and effort**

✓ **Increases uptime**

✓ **Improves budgeting**

✓ **Helps control inventory**

martin® engineering

N2 REMOTE MONITORING FOR BELT CLEANERS

N2 Position Indicator
Urethane collar with sensor and transmitter

- Activates every 6 minutes
- Transmits up to 1000 meters depending on site conditions
- Indicates the position of mainframe to determine the wear on the blade
- Measures tension of the cleaner
- Sends signal if belt cleaner is not touching the belt
- Powered by an easily replaceable lithium battery with a 2-year life expectancy

N2 Cellular Gateway
Radio signal receiver and modem

- Collects data from Position Indicators and transmits it to the cloud
- A gateway can accommodate up to 200 PI's depending on site conditions and collects the data from it by radio signal
- Transmits via mobile network to the cloud
- Data can be collected via Wi-Fi, if cellular coverage is limited (e.g. underground)
- Gateway is connected to standard power source on site and backed with battery

Smart Device Manager
Martin Mobile App

- Monitors the position of the blade
- Notifies when to re-tension the blade
- Notifies when to replace the blade
- Estimates blade life based on current rate of wear
- Notifies excessive movement of the mainframe
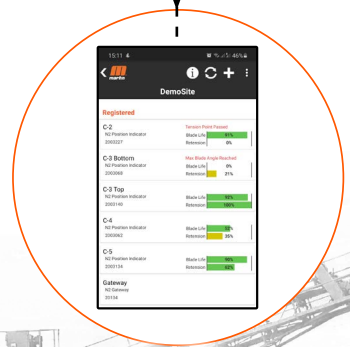- Monitors ambient temperature and notifies in case of substantial changes

mobile data

Data Cloud

radio signal

N2® Position Indicators

N2® Cellular Gateway

Martin App

Martin Engineering RSA
Cnr Antwerpen & Arnhemsingel, Die Heuwel, Witbank, 1035

Tel.: +27 13 656 5135 Fax: +27 13 656 5129
feedback@martin-eng.com
www.martin-eng.co.za