NGRT NEXT GENERATION RAIL TECHNOLOGIES

NGRT is a Spanish origin company focusing on railway safety, working with railway regulators and helping infrastructure managers and train operators secure their infrastructure and operations.

With unique technology NGRT will secure real-time, accurate and reliable warning of any infrastructure incidents such as Broken Rail, Rock- and landslide, Flooding and Wash-outs, Wheel-Derailment, Flat wheel and unauthorised personnel/objects on the track presented directly into the railway control centres.

Detection

NGRT's products are designed to detect approaching trains and other types of rolling stock including anomalies impacting the railway infrastructure and performance.

Our products are designed to operate regardless of weather and infrastructure conditions.

Always Online

NGRT products are designed to always be online, thus providing train control centres, maintenance staff and train operators with necessary alerts and warning times according to international and national regulations.

Organisation and aim

NGRT is founded by its employees and partners, and based upon a LEAN organisation comprising of larger international partnering organisations.

The NGRT aim is to offer the Railway Industry solutions and technologies based on a highly competitive price structure, best ROI, and shortest lead-time.

Standards and requirements

NGRT's reputation is based upon providing the best in class regarding quality, reliability and integrity in all our deliverables. Last but not least, our solutions are designed to operate based on the railway industry's standards and requirements.

Information

Next Generation Rail Technologies S.L.

For more information, visit **www.ngrt.org** or send an email to **info@ngrt.org**

NGRT Components and Applications

NGRT Components

NGRT's products are designed to:

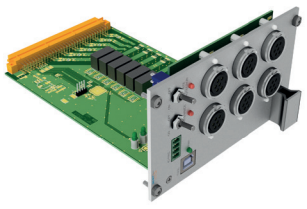
- Detect approaching trains and other types of rolling stock including anomalies impacting the railway infrastructure and performance
- Operate regardless of weather and infrastructure conditions
- Always to be online, thus providing train control centres, maintenance staff and train operators with necessary alerts
- Provide warning times according to international and national regulations.

Key Advantages of NGRT Applications

- Significantly reduced cost, from purchase to installation and maintenance
- Designed along modern "plug & play" principles
- System installation is generally completed within a day
- SW and HW designed, developed and built in accordance with CENELEC standards
- Power consumption is low, and supports green energy resources
- Warranty 10 years
- Manufacturing performed locally in the Client's territory
- Support and service provided by local partners

Main Assembly

- Runs up to 3 NGRT applications simultaneously
- 1 x Power Unit, 1 x I/O Unit, 8 x Control Units
- 1 x Information & Diagnostics Unit
- Flexible and expandable architecture
- Low power consumption
- Built-in redundancy and GSM connection
- Industrialised 19" 3U size
- NGRT certified enclosure or existing REB

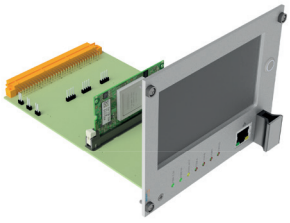


Input/Output Unit

- Detection Unit input
- External Signalling Device output
- Galvanic isolation of external lines
- Firmware protection and Maintenance switches

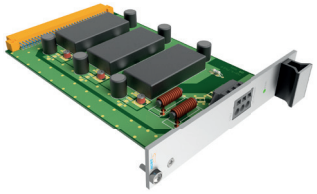
Control Unit

- Modular according to type of applications
- Processing and analysing data
- Up to 8 Control Units per Main Assembly
- Control Units are available in 4 versions depending on configuration
- Increased level of redundancy



Information and Diagnostic Unit

- 4.3" LCD displaying status in real-time
- Onsite maintenance indicator
- LAN connection
- Statistical data available from back-office functionality



Power Unit

- Three versions available
- 40W, 80W or 120W

For more information, please send an email to **info@ngrt.org**