



MRL PORTABLE BALISE ANALYZER

Multitel 
Railway Department



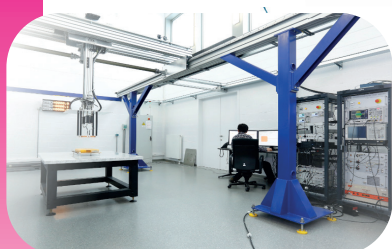
MOST IMPORTANT SUBSET -085 TESTS IN YOUR HANDS.

THE MUST-HAVE TOOL FOR INFRASTRUCTURE MANAGERS.

Multitel develops itself test benches and test solutions for ETCS, KTCS and CTCS. Moreover, we have dedicated tools for railway maintenance and diagnosis. Those tools can be used on field for real time analysis or in a maintenance/repair centre. They are turnkey solutions but still remain adaptable to any on-demand requests from the railway industry, operator and infrastructure manager.

The MRL-Portable Balise Analyzer is a **UNIVERSAL**, valuable, very convenient and standalone **ONSITE** tool for infrastructure managers to check the Eurobalise conformity deployed in the network. It is capable of testing the balise telegram consistency and RF characteristics.

As an option, it is possible to add into the tool, an offline mission preparation module that consists in establishing a list of to be tested balises, its ID and location in the network and the expected telegram. As a result, this module enables to verify if the data position of the balise recorded in the network corresponds to the real GPS position, thanks to GPS antenna of the MRL-Portable Balise Analyzer and to also compare the telegram consistency between the tested one and the expected one.



**CERTIFIED SUBSET-085
LABORATORY**



**MINI TEST BENCHES
(2 M3 REQUIRED)**



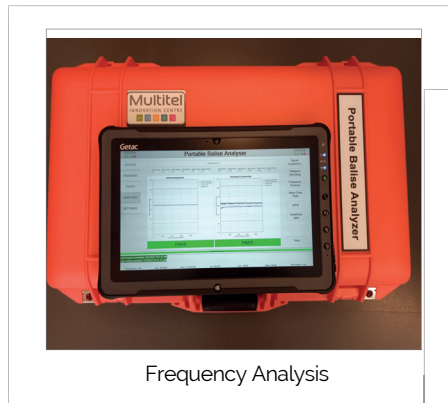
**THE MOST
IMPORTANT TESTS
OF THE SUBSET -085
IN YOUR HANDS**

Functionalities:

Uplink signal is analysed in fully automatic mode in accordance with SUBSET-085 requirements

- Telegram Decoding
- Centre Frequency
- Frequency deviation
- Mean Data Rate
- Maximum Time Interval Error
- Amplitude Jitter

Raw Data are stored on secure SSD Drive and can be exported for further analysis by expert in laboratory.



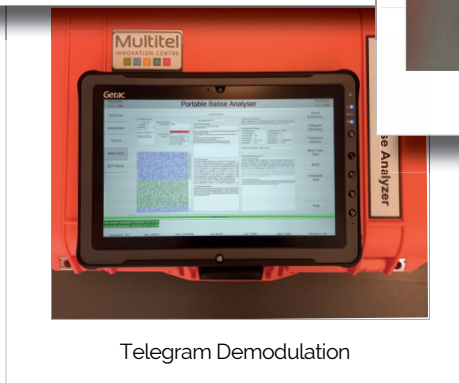
Frequency Analysis



Portable Balise Analyzer overview



RAW Data



Telegram Demodulation



Tests Overview

For more detailed
specifications
Please contact
mrl-pba@multitel.be

Extremely easy to use, a test in 3 steps: Put, Click and Done!

Put! The MRL-Portable Balise Analyzer on the top of the balise to test, switch ON
Click! Use your remote device to select and launch the test (safely away from the track)

Done! The results appear automatically on your device (Balise OK/NOK). In case the option mission preparation module is integrated, additional results: right/wrong Balise tested and right/wrong telegram will also appear on the screen.

Main features:

- Light but robust equipment for harsh environment (temperature, climate conditions, shock)
- Built-in telepowering and uplink antenna
- Single board computer with SSD drive for data acquisition and analysis
- Remote device with HMI for security aspect (away from the track)
- Subset-085 standard test software for immediate result analysis (OK/NOK)
- Preparation mission as an option

Compliance and flexibility:

- Test results comparable with Subset-085
- CE marking/ EN 50121-4/ EN 50125-3/ UN3480/ UN3481/ IP67/ IK10
- Compact, easy to transport but still robust for onsite use.

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SCAN ME

