

Elevator Market

The application of MRT to elevators is quite new. AMC started in early 2000s to develop such devices and the technology is no longer just a 'testing application', but a recognized inspection system.

In this industry the safety is really important because an elevator machine moves people from one floor to another and millions of runs are performed every day.

A failure in one or more ropes can cause injuries and other issues (stop of the plant, damages, etc.).

Visual inspection is extremely difficult due to the tight spaces and to the time required.

Maintenance process can benefit a lot from MRT in terms of time saving.

The elevator market is characterized by different types of suspension elements, such as steel wire ropes, coated ropes and belts. An elevator plant is not always the appropriate place to perform a visual inspection, it is usually too dark and tight.

AMC INSTRUMENTS developed special tools to perform an accurate magnetoinductive inspection on all the mentioned suspension elements, also on belts and coated ropes where visual inspection is practically impossible.

These solutions allow to save time as well. Wire ropes on a fifth floors elevator

can be inspected in less than 2 minutes (test setting included) increasing tenfold the accuracy of a visual inspection performed in a dark and small environment.



LIFT LC04+

Device able to perform non destructive test on multiple ropes, up to 4 in the same inspection.

The device works only on ferromagnetic ropes and the standard range diameter goes from 6 mm to 13 mm.

The system allows to measure only the LF Signal, detecting internal and external defects, such as broken wires, corrosions, wear and fatigue breaks.



NUMBER OF ROPES
TO INSPECTED 2 – 8

ROPES TYPOLOGY
Steel Wire Ropes;
Coated Ropes

RANGE DIAMETER
8 – 13 mm
Range
customizable
on request

WEIGHT 2,8 kg

DIMENSIONS 13 x 17 x 12 cm

TYPE OF SIGNAL LF

TYPE OF DEVICE Portable device

ACCESSORIES Professional case

OPERATING
TEMPERATURE
-20°C — +50°C

BELT LC

Device able to perform non destructive tests on a single belt with a maximum width of 30 mm.

The device works only on belts with ferromagnetic ropes in their cores.

The system allows to measure only the LF Signal, detecting internal and external defects, such as broken wires, corrosions, wear and fatigue breaks.



NUMBER OF BELTS TO INSPECTED	1
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BELT WIDTH RANGE	up to 50 mm Belt width customizable on request
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WEIGHT	2,5 kg
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DIMENSIONS	13 x 17 x 10 cm
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TYPE OF SIGNAL	LF
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TYPE OF DEVICE	Portable device
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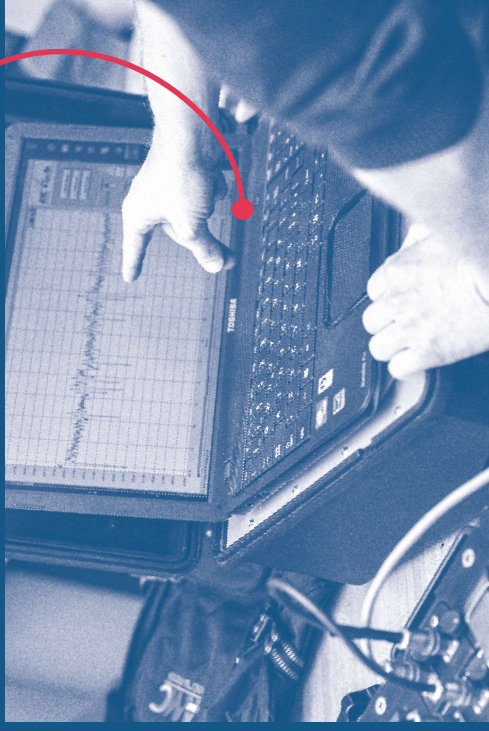
ACCESSORIES	Professional case
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OPERATING TEMPERATURE	-20°C — +50°C
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Acquisition System

This part of the MRT equipment is composed of a data processor and a software for the interpretation.

The acquisition system transforms the sensor's inputs in a signal on a graph, allowing the user to acquire, save and perform interpretation.



IAS-H

The IAS-H is an acquisition system equipped with a solid suitcase and a PC for high operations even in complex environments.



SAMPLING FREQUENCY FOR CHANNEL	Up to 5 ks/s
INDICATIVE IASH BATTERY LIFE IN CONTINUOUS OPERATION	> 6 hours
BATTERY CHARGING	230 Vac — 50 Hz
WEIGHT	6 kg
DIMENSIONS	50 x 40 x 20 cm
DIRECT CONNECTION WITH PROBE, COMPACT SIZE, PORTABLE; USE RECHARGEABLE BATTERIES	Yes
REAL TIME	Yes
AVAILABLE STORAGE	Up to 1 TB
CONNECTING CABLE WITH THE DETECTOR	20 m

OTHER CHARACTERISTICS

OPERATING TEMPERATURE	-20°C — +50°C
OPERATING SYSTEM	Windows

IAS-T

A highly portable acquisition system, specifically designed for operation in height.

SAMPLING FREQUENCY FOR CHANNEL	5 kS/s (up to 20 kS/s customizable)
INDICATIVE IAS-T BATTERY LIFE IN CONTINUOUS OPERATION	> 6 hours
BATTERY CHARGING	230 Vac — 50 Hz
WEIGHT	3 kg
DIMENSIONS	33 x 22 x 10 cm
DIRECT CONNECTION WITH PROBE, COMPACT SIZE, PORTABLE; USE RECHARGEABLE BATTERIES	Yes
REAL TIME	Yes
AVAILABLE STORAGE	128 Gb
CONNECTING CABLE WITH THE DETECTOR	20 m

OTHER CHARACTERISTICS

OPERATING TEMPERATURE	-20°C — +50°C
OPERATING SYSTEM	Windows



DLH

A practical data logger capable of acquiring up to 8 channels at the same time. Specifically designed for the elevator sector.

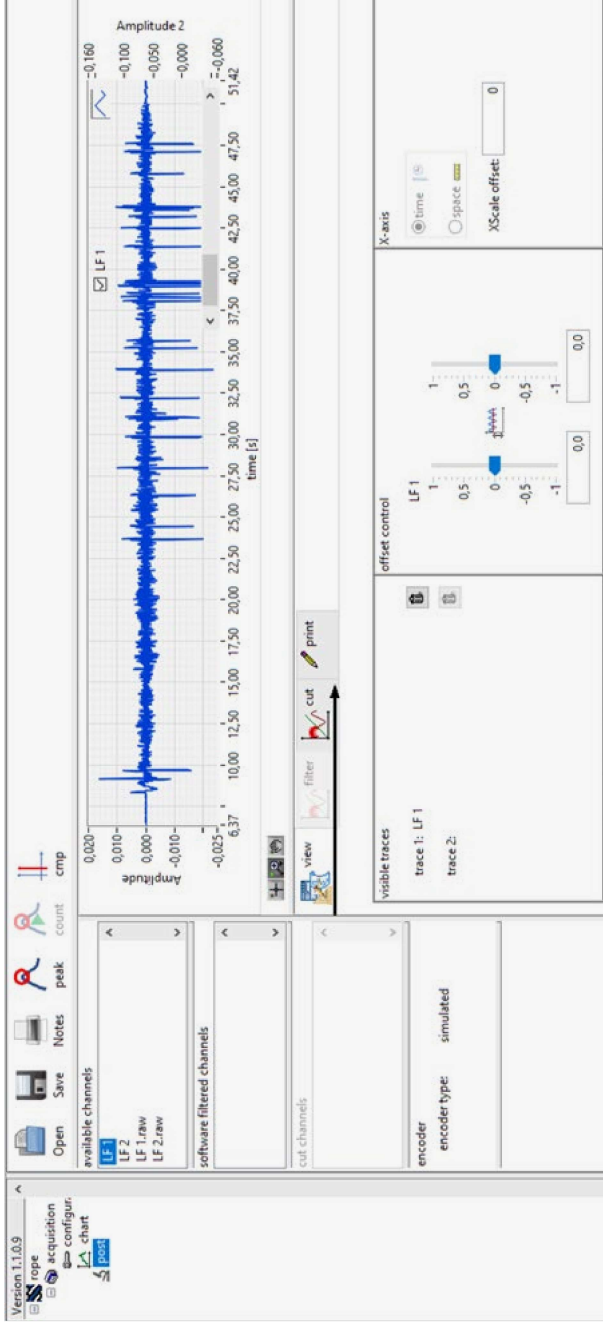


SAMPLING FREQUENCY FOR CHANNEL	5 kS/s (up to 20 kS/s customizable)
INDICATIVE FLASH BATTERY LIFE IN CONTINUOUS OPERATION	> 2.5 hours
BATTERY TYPE	4 x 1.5 V (AA alkaline)
WEIGHT	< 1 kg
DIMENSIONS	23 x 12 x 4 cm
DIRECT CONNECTION WITH PROBE, COMPACT SIZE, PORTABLE; USE RECHARGEABLE BATTERIES	Yes
REAL TIME	No
AVAILABLE STORAGE	16 GB on SD card
CONNECTING CABLE WITH THE DETECTOR	10 m

OTHER CHARACTERISTICS

OPERATING TEMPERATURE	-20°C — +50°C
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SOFTWARE



- Real Time.
- Collecting and viewing data on the computer while testing on the cable (data can be viewed directly on the device or computer).
- Adjusting the distance measuring range and the amplitude range to suit different test requirements.
- Ability to choose the channel while entering data and adjust its settings.
- Connecting and downloading data from the display controller to the computer for analysis.
- Reviewing chart, LMA (on request), LF, distance signals for cable fault analysis and assessment.
- Zooming and stretching the signal graphs for analysis.
- Comparing signal charts from different tests.
- Post analysis: combine two signal charts into one common chart.
- Set of evaluation, acceptance or rejection criteria.
- Printing final chart.
- Exporting data.



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We trust in safety.**

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