



## Have it all covered with Falcon S //

### Performance has never been more convenient

FALCON S // is a battery operated eddy current instrument packing lot of NDT technologies in a small-form case look-alike housing.

Small and convenient to carry around, it performs full inspection from simple bobbin probe to highest coils count array probe. On top of these most commonly used eddy current (EC) and eddy current array (ECA) methods, FALCON S // is capable of performing motor rotating eddy current inspection (MRPC), remote field testing (RFT), near field testing (NFT), magnetic flux leakage (MFL) and optionally with additional electronics module - internal rotating inspection system (IRIS). Device is completely sealed and passively cooled with no air intake to the internals of the instrument, making operation much simpler in harsh and contaminated area.



### Resilience has never been more lightweight

With all the performance capabilities aside, the instrument is designed to make inspection setup fast and easy. Instrument is among the smallest on the market and is capable of driving very long probe cables with multiple extensions and interconnections. With single handle it is designed to be carried around with only one hand without hand fatigue through all tight places. The visually pleasing all-around bumper is covering the instrument from kicks and bumps that are normal in industrial environment during exploitation. As bumper is extending from the case form of instrument, the probe connectors are also protected from the damage in case of fall event.





The small 2.8" display shows the current acquisition status of the instrument with information on the IP address of the board. If IP address is manually changed to fit with other equipment on same subnet, next time operator will just read it from display and connect to instrument in no time. IP address is easily changed from INETEC **EddyOne** Acquisition software.

FALCON S // has Li-ion battery embedded inside of the instrument and provides 8 hours of inspection time. Joined by laptop it can provide great setup for performing inspection in places where no power is available.

#### Cost-effectiveness has never been more at reach:

FALCON S // is a portable instrument that offers highest quality of data that can be easily collected by EddyOne acquisition, evaluated in EddyOne data analysis and managed in EddyOne management. Integrated battery and high performance of FALCON S // will enable quick and reliable inspection in any scenarios.

#### Technologies in a single instrument:

- ▶ several NDT technologies in single instrument
- ▶ one of the lightest and smallest instruments on the market with 640 channels capability
- ▶ fast and easy setup
- ▶ practical to carry and use
- ▶ no air intake, passively cooled
- ▶ great mechanical protection from kicks, bumps, falls
- ▶ battery operated - with laptop provides inspection in no-power areas



## Convenient for inspections

- EC Eddy current
- ECA Eddy current array



- MRPC Motor rotating eddy current inspection
- RTF Remote field testing
- NFT Near field testing
- MFL Magnetic flux leakage
- IRIS Internal rotating inspection system





# FALCON<sup>S</sup> //

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## Overview of Features:

- shock resistant, protecting enclosure
- easy to carry
- 4,5 kg with battery - lightweight
- 2.83" display for general status - IP address, connect/acquisition status
  
- supports up to 640 simultaneous channels
- applicable for most demanding tubing and surface inspection
- controlled by PC application, remotely or on-site
  
- passively cooled
- power input - 24 VDC, 100-230 VAC with external AC/DC
- ethernet connectivity

## Auxiliary connectors

- 27 contacts
- 2 encoder inputs support all encoder types connection- x,y scanning
- 4+4 digital isolated inputs and outputs
- power supply for encoders

## Connectivity

- connect to a PC using Inetec EddyOne acquisition and analysis software

## Supported methods

- eddy current (EC)
- bobbin probes, surface probes and others
- eddy current array (ECA)
- tubes array probes, surface array probes and others
- remote field testing (RTF)
- all standard RTF probes
- magnetic flux leakage (MFL)
- all standard MFL probes
- near field testing (NFT)
- all standard NFT probes
- IRIS (optional module)

## Probe connectors

- 41 contacts
- 8 physical EC inputs
- 2 powerful generators up to 30 Vp-p and 1 A each
- 10 Hz - 6 MHz bandwidth
- multiple probe capability

## Earth link

- ground connection for safe operation
- improves signal quality in noisy industrial environments

