



Eddy Current Instrument That Knows No Limits

Inspections have never been easier and more cost-effective to perform! Introducing FALCON ^C //, a portable 7" touchscreen, most versatile and durable eddy current instrument.



Designed for both hand-held inspections and remote inspections

Lightweight and easy to carry, FALCON ^C // is ideal for inspecting pencil probes, array probes, weld probes and conductivity probes. Yet this device is not limited to on-site inspections. Unlike other portable instruments, its generator capability of 30 Vpp @ 1A provides great coil driving for all tube inspection applications with any cable length and required power. For remote inspections, just connect the instrument via Ethernet to any PC running our EddyOne Acquisition and Analysis software.

Built to last

FALCON ^C // has an 8-hour battery life with two interchangeable batteries that can be hot-swapped for unlimited inspection time. An external charger can be used.

Convenient to handle

With quick set-up and excellent interface accessibility through touch commands, action keys, wording keys or slider and navigation keys, FALCON ^C // is easy to operate. Having multiple user input choices available, you can choose the best combination to optimize performance. Also, its ergonomic design with the center of gravity pushed towards the hand strap minimizes the holding fatigue common when handling portable instruments. It works flawlessly in hard-to-reach areas.

FALCON^c //

Versatile and cost-effective

FALCON^c // is ideal for measuring:

EC

both surface and tube inspection (pencil, weld, bobbin, etc.)

RFT

ECA

both surface and tube inspection (surface array, tube combo, etc.)

NFT

Conductivity and Coating thickness

MFL

In combination with INETEC's weld probes, it can easily replace Liquid Penetrant Testing (PT) and Magnetic Penetrant Testing (MT) inspections by cleaner and faster inspections that could be performed without removing the inspection object from exploitation.

Features flexible connectivity

You can interact with and transfer files through Wi-Fi, Bluetooth or Ethernet. Local web server on the instrument provides fast data accessibility from any device (smartphone or PC) without any additional software requirements – just go to your favorite browser, enter device IP address and you are ready to do your job. Upgrade firmware, access configuration files, probes configurations, reports, recorded data or created screen snapshots within seconds.



FALCON^c //

Overview of numerous helpful features:

- ▶ wide range of application, from hand-held to remote inspections
- ▶ an alternative to Liquid Penetrant Testing (PT) and Magnetic Penetrant Testing (MT) inspections
- ▶ hot-swappable batteries provide up to 8 hours on single charge, with the possibility to increase uninterrupted inspection time with multiple battery packs
- ▶ lightweight, easy to carry and use, reaches tight areas
- ▶ ergonomic design that minimizes holding fatigue
- ▶ 7" touchscreen provides a better inspection experience than the small displays that are commonly found in portable devices
- ▶ users have multiple input choices: keypads, touch and capacitive sliders to suit your preferences and boost performance
- ▶ flexible connectivity - easy file management through the local web server that can be accessed via WiFi or Ethernet
- ▶ convenient for easy file exchange via smartphone or PC
- ▶ capable of driving long cables with high voltages for tube inspections requiring very long pipeline inspections
- ▶ hassle-free operations made possible

Achieve even more limitless operations

FALCON^c // can come with specifically built adapters to connect to third-party probes.

Augmented Reality (AR) glasses can be connected to the FALCON^c // to provide "heads-up" experience while performing the inspection without the hassle of holding the instrument. Put the AR glasses on, hang the instrument and focus on the probe position on the inspection object. Have your signals in front of you all the time!



FALCON[®] //

Specification

Size (W × H × D)	294 x 192 x 58 mm
Weight (including batteries and cover)	1.6 kg
Multi-Touch Display	7" touch display with user controls and acquisition software
Battery Life	8 hours (2 batteries x 4 hours)
Eddy Current Connector	18-pin Lemo connector
Eddy Current Array Connector	26-pin Lemo connector
Connectivity	Ethernet, Wi-Fi, USB-A
Encoders	2 axes, quadrature and pulsed direction
Probe Recognition and Setup	Automatic by probe detection or manual by loading probe preset
Coil Inputs	2
Frequencies Per Timeslot	Up to 5 simultaneous frequencies
Data Channels	Up to 160
Maximum Probe Coils	32
Frequency Range	10Hz-6MHz
Generator Output	Up to 30 Vpp
Injection Modes	Continuous mode, Time-multiplexed, Super-multiplex (multi frequency)
Receiver Gain	Default 27.5 dB, 33.5 dB, 39.5 dB, 45.5 dB
Data Resolution	16 bit
Probe Drive	1
Filters	High pass, Low pass, Band pass
Alarms	Yes
Charger specification	24 VDC, adapter 100–240 VAC, 50–60 Hz included
Operating temperature	0–40 °C (32–104 °F)

Falcon[®] // is certified as per ISO 15548-1:2013. The INETEC Quality Safety Environmental Management System is based on ISO 9001:2015, ISO 14001:2015.

