

# Rollscan 250

Barkhausen Meter

Simple-to-use  
Barkhausen Meter  
for fast quality control



# Rollscan 250 Unique Features

**Rollscan 250** is an instrument for controlling the surface quality and testing of near-surface defects in a wide variety of ferritic steel and other ferromagnetic materials.

Rollscan 250 easily detects defects related to changes of stresses or microstructure. These defects are commonly due to failed grinding, heat treatment, shot peening, or any other surface treatment process.



## Rollscan 250

Inspection with Rollscan is fast and can easily match the production rates of most manufacturing lines, enabling process control in real time. As a result, significant quality improvements and savings on material and labor expenses have been realized by companies using the Rollscan system.

A wide variety of sensors make inspection systems using Rollscan flexible. Piston pins, gears, bearing rings and rollers, camshafts and crankshafts, and landing

gears are just some of the parts that can be successfully tested with Rollscan 250. Rollscan 250 becomes even more efficient by integrating the optional ViewScan data acquisition software to its use.

### Main features

- Applicable for ferritic steels, iron, nickel and cobalt
- A sensor with pre-amplifier
- Analyzing frequency 70–200 kHz
- Adjustable magnetizing voltage: 0–16 Vpp
- Adjustable magnetizing frequency: 1–500 Hz
- Magnetizing wave form sinusoidal or triangle
- Two channel
- Connectors: osc, rec, USB, RS-232, Ethernet, Trigger
- LED bar; limit value, below which the signal is shown with red LED light, can be adjusted freely





Manual Barkhausen Noise measuring with Rollscan 250



Adjusting Rollscan 250



BearingScan 400 with Rollscan 250



CrankScan 200 run with Rollscan 250



Rollscan 250 in a cabinet



Rollscan 250 and RoboScan

# Technical specifications



Magnetization	U I f	0–16 Vpp = 0–5.656 V 1.5 A 1–500 Hz
Analyzing frequency range	f	70–200 kHz
Displays	mp limit <b>(Limit)</b> magnetizing <b>(Magn)</b> light column	4 digit LED 3 digit LED 3 digit LED  8 x green LED 8 x red LED
No. of channels (max)		2
Alarms		high limit (adjustable)
Connections	sensor socket sensor plug  RS-232 Ethernet LAN USB signal monitor recorder	LEMO ENA.3B.314.CYM LEMO FGA.3B.314. CCYCD10Z male 9-pin RJ-45 USB 1.1 female B-type +/- 8 V BNC 0–2 V BNC

Batteries	optional battery type	2 x 12 V / 2.3 Ah rechargeable sealed lead acid
AC power source		90–260 VAC / 49–61 Hz / 100 VA (maximum inrush current 40 A at 115 VAC, 80 A at 230 VAC)
Enclosure protection		IP20
Operating environment	humidity temperature altitude	10–90 % non condensing 0–40 °C up to 3000 m
Dimensions	width height depth	370 mm 110 mm 320 mm
Weight		6.0 kg without batteries 8.5 kg with batteries