

Innovative weld seam detection system for tubes and coils R4000 series SND40

Depending on the application several sensor principles are available:

- ▶ *Magnetic leaking flux*
- ▶ *Eddy current*
- ▶ *Magnetic leaking flux and eddy current combination*
- ▶ *Vision outside sensor*
- ▶ *Laser inside sensor*

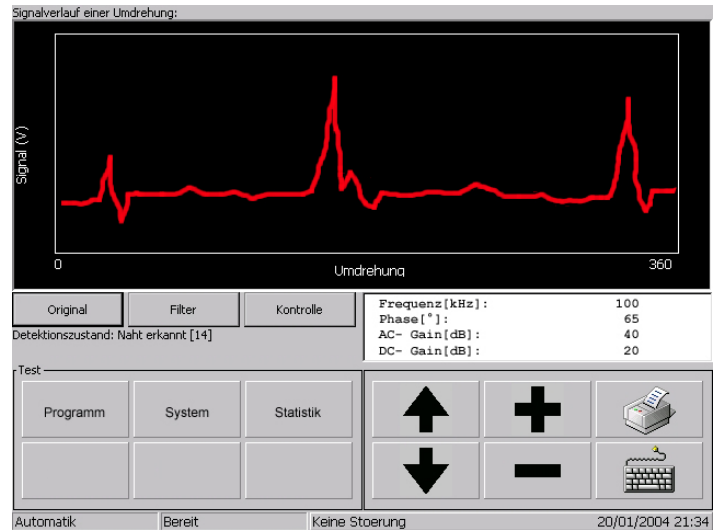


The new PC-based Weld Seam Detector SND40 combines the strengths of analog sensor technology with digital signal analysis for the special requirements of weld seam detection. The tried and proven magnetic leaking flux sensor, new types of eddy current probes as well as vision and laser sensors make the SND40 a highly flexible Weld Seam Detector.

The PC-based units features menu dialogs with touchscreen, fieldbus and Ethernet interfaces. In addition to detecting weld seams in metallic coils and tubes with diameters ranging from 5 to 500 mm, (.2 to 20 inch) vision and laser sensors can be used to solve applications with non-metallic materials.

Operator interface

- Total operation via touchscreen
- Large display of sensor signals and analysis results
- Mouse and keyboard as options
- Printer port
- Unlimited storage of measuring programs



Function

- Weld seam detection on tubes and in coils of all metals and non-metals
- Tube diameter: 5 - 500 mm (.2 to 20 inches); coils width: from 100 mm (4.0 inch)
- Testing velocity:
maximum 300 revolutions per minute (depending on tube diameter) or
maximum 10 meters per second in case of coils
- Application in tube bending machines, presses and cut-to-length lines
- Digital signal analysis with monitoring of the tube drive and the detection reliability
- The combination of magnetic leaking flux and eddy current make this system very versatile
- Vision and laser sensors enlarge the application spectrum

Sensors

- Magnetic leaking flux sensors of the types NS9 / NS12 und NS9SC
- Cylindrical eddy current probes for nonferrous materials
- Combined leaking flux and eddy current sensor NS9S-EC
- Vision outside sensor NSV9S
- Laser inside sensor NSL20



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