

Technisches Englisch

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Flexible and lightweight flaw detection

Whatever the process industry, **flaw detection** remains a top priority in terms of **maintenance** and safety. The latest flaw detection equipment is designed to be flexible, lightweight, and easy to use. When it comes to flaw detection in the process industries, instrument flexibility is high on the list of today's **requirements**.

With this in mind, GE Sensing & Inspection Technologies has **launched** a new family of **ultrasonic** flaw detectors. The Phasor family **incorporates** conventional and **phased array ultrasound** technology in three **upgradeable** models: Phasor CV, Phasor 16/16 Weld and Phasor XS. The **tiered** platform offers inspectors the opportunity to select the model and technology that best **suits** their specific application, whatever the process being **investigated**. ...

The Phasor XS, the first product in the new family, is a **portable** ultrasonic phased array flaw detector that provides the highest resolution and **probability** of inspection. It also offers timed or encoded TOPView software for corrosion **mapping**.

The Phasor16/16 Weld is the mid-level solution, which offers phased array and conventional functions within a portable ultrasonic flaw detector. It produces full colour image scans that can be stored as a jpg for **remote** analysis and **archiving**. The detec-

tor comes with a **weld probe** and package, making it ideal for detecting **cracking**, **lack of fusion**, **inclusions** or **porosity** in **welds**, both during fabrication and in service.

Lastly, the Phasor CV **rounds out** the portfolio and is a conventional **single channel** ultrasonic flaw detector. Users are able to start with the top-of-the line the Phasor XS and have access to all capabilities or begin with the Phasor CV and expand the solution as inspection needs change.

According to GE, each solution within the Phasor platform is **compliant with** all **major** inspection codes and is **suitable** for a wide range of tasks from simple **echo amplitude comparison** to complex DGS evaluation. The Phasor is used for applications **ranging from** corrosion monitoring to defect detection and **sizing**.

By courtesy of Engineer Live

according to laut, gemäß, zufolge
archiving Archivierung
compliant with konform, verträglich mit, in Übereinstimmung mit
cracking Risse, Rissbildung
echo amplitude comparison Amplitudenabgleich
flaw detection Fehlererkennung, Rissprüfung

in terms of bezogen auf, hinsichtlich
inclusion Einschluss, Einsprengling
incorporate berücksichtigen, einbauen, einbeziehen
investigate untersuchen

lack of fusion Bindefehler
launch starten, auf den Markt bringen
maintenance Wartung, Instandhaltung
major wichtig, Haupt-
mapping Abbildung, Kartierung
phased array phasengesteuert
porosity Porosität, Durchlässigkeit
portable tragbar

probability Wahrscheinlichkeit
range from ... to reichen von ... bis, sich erstrecken von ... bis

remote entfernt, Fern-
requirement Erfordernis, Anforderung
round out abrunden

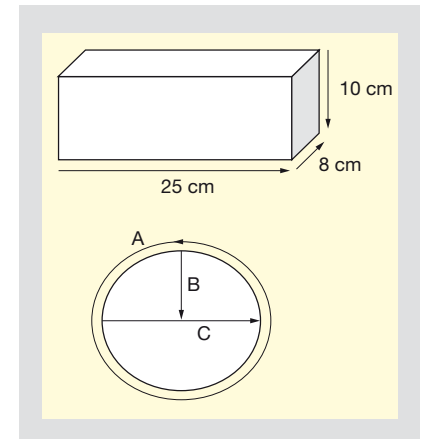
single channel Einkanal-
sizing Größenbestimmung, Kalibrieren, Ausprägen

suit passen, geeignet sein
suitable passend, geeignet
tiered abgestuft, gestuft
ultrasound Ultraschall
ultrasonic Überschall-, Ultraschall
upgradeable erweiterbar, erweiterungsfähig

weld probe Schweißnahtsonde, Prüfkopf
with this in mind mit Blick auf, mit diesem Ziel

Measures

Last time we looked at shapes and objects. This **issue** will **deal with** technical **measures**. Please look at the box and the circle and talk about their **dimensions**. Try to remember the nouns and adjectives and complete the example sentences.



A solid box:

- The box is 10 cm
It has a of 10 cm.
- The box is 8 cm
It has a of 8 cm.
- The box is 25 cm
It has a of 25 cm.

A hollow box:

- The box is 10 cm
It has a of 10 cm.

A circle:

- A is the of the circle.
- B is the of the circle.
- C is the of the circle.

deal with sich befassen mit, behandeln
dimension Abmaß, Abmessung
hollow hohl
issue Ausgabe, auch: Angelegenheit
measure Maß, Messgröße
solid massiv, fest

P. Zillmer



Phasor Flaw Detector