



ACOUSTIC
CONTROL
SYSTEMS

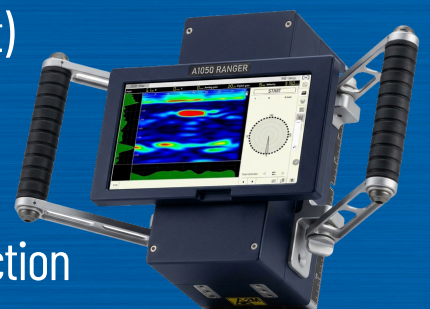
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A1050 RANGER

ULTRASONIC GUIDED WAVE TOOL FOR DETECTING HIDDEN CORROSION



- Detecting Corrosion in Inaccessible Areas
(Corrosion Under Ground & Under Support)
- Couplant-free Operation
- Suitable for Coated & Painted Objects
- Flexible Manual or Scanner-Based Inspection
with Real-Time Imaging Results



Specification:

PARAMETER	VALUE
Measurement technology	Ultrasonic guided wave (SH ₀ Mode)
Operating Frequency	50 KHz
Inspection range	Up to 3 meters 9.8 ft
Number of DAQ channels	32
Applicable on diameters	70 mm – 380 mm 2,7" – 15"
Operating time on a single battery charge	up to 10 hours

General Functional Description:

- The operator scans the inspection object using a manipulator or manually using two handles and a magnetic ruler.
- The instrument collects ultrasonic data at several equidistant measurement positions along the pipe circumference.
- The application software reconstructs a B-Scan image in real time, indicating corrosion damage.



Special features:

- Utilizes 32 Dry-Point-Contact Transducers for Couplant-free Operation
- Applicable to Metallic & Non-metallic Pipes
- Wireless Data Transfer to a Smartphone or Tablet PC
- GPU based image reconstruction using Synthetic Aperture Focusing Technique (SAFT)
- iOS or Android Application Software available on request

Delivery set:

ITEM	VALUE
A1050 RANGER electronic unit	1
Tablet-PC in a protective case	1
Adaptive inspection manipulator applicable to various pipe diameters	1
Type C power supply for electronic unit & tablet-PC	1
Carrying hard case	1
<u>Optional:</u> handles for manual data collection (without manipulator)	2