

GE
Sensing & Inspection Technologies

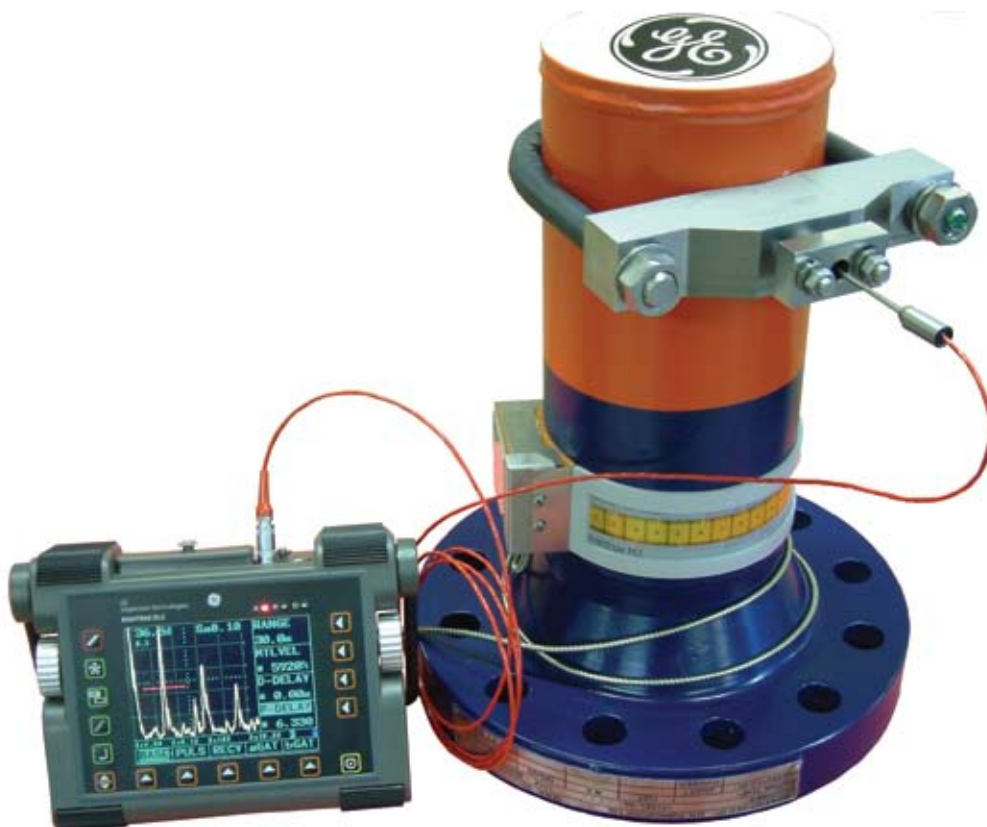
Rightrax DL2

Ultrasonic

More than just a data logger for wall thickness measurements—it's a flaw detector too!

By combining the second generation Rightrax data logger for wall thickness measurements with the versatile, industry-standard GE USM35 flaw detector, GE Sensing & Inspection Technologies have developed a portable instrument, which greatly increases inspection capabilities.

It is now possible for an NDT technician to use a single instrument to carry out corrosion/erosion monitoring, wall thickness measurement and standard flaw detection on weldments – saving time and money.



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DL2 in Data Logging Mode

When used in data logging mode, the DL2 is simply connected to an existing Rightrax M2 sensor, a multi-element, flexible, self-adhesive ultrasonic transducer array that is permanently bonded to the plant or pipe whose wall thickness is to be measured/monitored. Once M2 sensors are fitted, there is no need to remove lagging, erect scaffolding and excavate pipelines or shut down plant during subsequent inspections. The DL2 simply interrogates the sensor as required and the thickness data is collected. Remaining wall thickness is calculated using automatic signal processing of the derived A-scan.

- Makes direct thickness reading (mm or inches) using the M2 sensor.
- Interrogates up to 10 sensors at one connection via a multiplexer.
- Operation does not require NDT specialists
- Stores data, incorporating A-scans from up to 100 M2 sensors.
- Download data to a PC for further analysis using WINHOSTP and CMDA software.

DL2 in Flaw Detector Mode

When used in the flaw detector mode, the DL2 offers all the acknowledged features and benefits of the field proven USM35 instrument. It is easy to use and has no multi-level menus, just five keys to select the operating menu, with four further keys to select functions such as material velocity and range. It has two familiar, "spin and set" rotary knobs for rapid setting of gain and function values.

- Users can carry out conventional wall thickness measurements using standard ultrasonic transducers.
- Can be used for conventional flaw detection in welds, using standard GE transducers.
- The high contrast color display facility enhances clarity when using angle beam probes in weld inspection, as the color of the signal changes with every reflection of the sound beam from the workpiece surface.
- Amplitude for each gate, sound path or sound path difference can be displayed prominently in the corner of the A-scan.
- Incorporates new powerful DAC/DGS evaluation with direct digital ERS readout for greater accuracy.
- Colour display is used to highlight messages and alarms and the color can be changed to suit personal preference or ambient light conditions.
- Selected data can be transferred to a printer or remote PC via a standard VGA output.

Versatile and Portable

The DL2 weighs just 2.2kg and is powered by Lithium ion batteries which offer extended battery life of up to 14 hours. It is protected to IP66 and can operate in ambient temperatures ranging from 0 - 60°C (32 - 140°F), while its lower operating limit can be as low as -10°C (14°F) after individual climatic testing. All instruments are supplied complete with battery charger, connecting leads, instruction manual; data download software and carry case.



GEIT-202090EN (01/09)

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