

# The USLT USB

A USLT 2000 Ultrasonic Testing System with a USB Port

## The Ultrasonic Testing System with a USB Port



### Allows Universal Connectivity with Standard PCs

The USLT USB is a development of the USLT 2000, the ultrasonic flaw detection system which is widely used throughout the automotive sector in spotweld checking.

It retains all the features and benefits of the field-proven USLT 2000 but is supplied with a USB interface, which replaces the former PCMCIA card. This will allow easy connectivity for all users and the modification has been implemented to meet market needs.

### Simple Operation

The USLT USB is essentially an intelligent interface between the ultrasonic sensor and a standard PC used for display and analysis. It is a small, aluminium, rectangular box, which contains all the pulser and receiver electronics. It is directly connected to the ultrasonic sensor at one end, while the other end connects with any standard computer through a USB connection. Operation is via the PC keyboard or mouse or via remote control having eight assignable instrument functions.



GE imagination at work

### State-of-the-Art Electronics

Extreme miniaturisation of the electronics, allowing efficient maximisation of performance, is the essence of the USLT USB. And maximisation of performance does not just mean high measuring accuracy and a wide frequency range. It also means the incorporation of features which allow you to customize the instrument to meet your specific application needs.

This includes:

- A choice of echo display mode to assist evaluation
- The ability to superimpose a stored test display onto a live A-scan to compare results
- The ability to record echo dynamics and simultaneously display real time signals
- The availability of adjustable signal averaging
- DGS curves are available for all valid equivalent reflector sizes and probes with DGS capability
- Can use both DAC and TCG

As such, the USLT USB offers universal evaluation options for detected indications to meet both national and international test specifications.



## Application Specific Software

The universally accepted UltraLOG software package employed by USLT USB, has been developed specifically for the evaluation and documentation of spotweld inspections. It can help to analyse A-scan echo displays and can provide detailed flaw classification, such as sound spot weld, loose or burnt spot weld, inadequate weld nugget diameter, etc. The software's extensive database also allows the management of specific inspection plans, tailored to suit particular manufacturing processes.

## Improved Quality Management

Simplified connectivity, state-of-the-art ultrasonics electronics and proven applications software help to ensure that the USLT USB can help inspectors to meet national and international test specifications.

### Recommended accessories

(not included in the price of the instrument)

USLT-RC	Remote Control incl. transmitter box and USB receiver
ULOG-5	UltraLOG software, version 5, for ultrasonic inspection of spot welds
UDB Manager-5	Database manager, version 5, for UltraLOG, version 5
USLT-RTM	for precision wall thickness measurement using the resonance method and including operating manual
USLT-EHT	Software program for the measurement of the case hardening depth using the ultrasonic backscatter method and including operating manual
USLT-FFT	Software program for the measurement of frequency spectrums from ultrasonic signals and including operating manual
UCAR-S1	UltraCAR standard, statistic program for evaluation of test results
UCAR-P1	UltraCAR Professional, extended statistic program for evaluation of test results

### Dialog probes and probe cables for spot weld inspection

G20 MN...X	Dialog straight-beam probe (20 MHz) for spot weld inspection (price on request)
G...	Straight-beam probe in special design for spot weld inspection (price on request)
G20 MN...	Standard straight-beam probe (20 MHz) for spot weld inspection (price on request)
MPKL 2 X	Dialog probe cable: 2 x triax plug Lemo 00, 2 m
MPKL 2XS	Dialog probe cable with protection sleeve: 2 x triax plug Lemo 00, 2 m

MPKL 3XS	Dialog probe cable with protection sleeve: 2 x triax plug Lemo 00, 3 m
MPKL 4XS	Dialog probe cable with protection sleeve: 2 x triax plug Lemo 00, 4 m
CL 331	Probe cable: Lemo-00 plug/USLT, Microdot plug/probe, 2 m
AD-L0/L1-	Adaptor Lemo-00 plug/USLT, Lemo-1 socket/probe cable, e.g. for standard probe cables PKLL 2 or MPKL 2
MPKL 2	Probe cable: Lemo-00 plug 00/USLT, Lemo-1 plug/probe
MPKLL 2	Probe cable: Lemo-00 plug/USLT, Lemo-00 plug/probe, 2 m

### Dialog probes and probe cables for general flaw detection

B 2 S X	Straight-beam probe
MB 4 S X	Straight-beam probe
MSEB 4 X	TR probe
MWB 45-4 X	Miniature angle-beam probe
MWB 60-4 X	Miniature angle-beam probe
MWB 70-4 X	Miniature angle-beam probe
MPKL 2 X	Dialog probe cable: 2 x triax plug Lemo 00, 2 m
MPKL 2XS	Dialog probe cable with protection sleeve: 2 x triax plug Lemo 00, 2 m
MPKL 3XS	Dialog probe cable with protection sleeve: 2 x triax plug Lemo 00, 3 m
MPKL 4XS	Dialog probe cable with protection sleeve: 2 x triax plug Lemo 00, 4 m
SEKL 2 X	Probe cable: 2 x triax plug Lemo 00 / USLT, 2 x triax plug Lemo 00 / TR dialog probe, 2 m



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