USM 35X



The latest version of the USM 35 portable ultrasonic flaw detector from GE's Inspection Technologies business, is now totally protected against the ingress of dust and high pressure jets of water to IP 66 and contains new software which allows its operation to Japanese weld inspection standards.

{tab=Features}

- Protection accorind to IP66
- Can be operated in harsh or industrial environments
- Fast and bright color LCD
- Rechargeable battery with ability to operate for 14 hours
- Max allowable operating temperature range from 0°C to 50°C
- Optional DGS module for single element or dual element (T/R) probes. The module includes some preset GE's single or dual probes. Other probes can be configured by the user.
- <u>true</u> <u>DGS® angle beam transducers</u> for significantly improved sizing capabilities to EN 583-2

{tab=Specifications} Calibration ranges

Min 0 to 0.5 mm +10 % (steel), 0 to 0.02" +10 % (steel)

Max 0 to 9,999 mm +10 % (steel), 0 to 390" +10 % (steel) within the frequency range from 0.2 to 1 M **Sount!** (Wellcoit), 000 m/s, 40 to 600 inch/ms variable in steps of 1 m/s, 0.1 inch/ms and fixed progran **Displayodel40** to 1,000 mm, -0.3 to 40" (340 μ s)

Probe the 12000 µs

Auto Idabistrations nt and setting of sound velocity and probe delay using two known calibration echoes Pulse 200 pu

Dampinghms, 500 ohms (1,000 ohms in TR mode)

Pulse nepetition frequences in 10 steps

Frequency rankes 0.3 db4 MHz / 0.8 to 8 MHz / 2 to 20 MHz

Gain 0 to 110 dB, variable in steps

Gain & teps / 2 / 6 / 12 dB (or user-adjustable), step 0 is locked

Fine gadB, continuously variable in 40 steps

Rectification, negative and positive half-wave, RF mode

Rejectinear, 0 to 80 % screen height Variable in steps of 1 %

Monitoingates in color bar mode, start and width variable over the entire calibration range Soundigitathdispassurement path (projection distance, depth) between initial pulse and the first echo Measurement without irange up to 99.99 mm/ 0.1 mm within a range from 100 to 999.9 mm/ 1 mm at Amplitudes displayeight

USM 35X DAC: additionally in dB above DAC or TCG

USM 35X S: additionally in dB above DGS curve or ERS

Displayedd eadin greduced) projection distance, depth, amplitude for every gate, userconfigurable at A-scandaturations tomatic A-scan freeze, A-scan comparison, echo dynamics (envelope), peak echo Color Patentions olor-coded display of legs in angle testing, adaptation of background color to the light DAC OTOGU (CONTIGO) DAC and USM 35X S: Distance- Amplitude Curves (DAC) or TCG line (TCG) with DGS (CONTIGO) 35X S: DGS curves for single-element and dual-element probes (B1S, B2S, B4S, ME Display@sizen/xesolution 6" x 3.4" (W x H)

320 x 240 pixels

A-scan Sizen xesolution 4.6" x 3.2"

320 x 220 pixels (zoom)

Unitsnorfimeals urement

Data & Direct Displayment setups or reports, including AScans can be stored, recalled, printed or exported Direct Displaymentation nents, report including A-scan, reading, function list (parameter dump)

Printer Displaymentation nents, report including A-scan, reading, function list (parameter dump)

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RS 232pint@3ade, bi-directional, 300 - 57,600 baud An USB adapator cable can be provided to conne Input@Quaputemo-1 socket (trigger output, gate alarm, test data release)

Additional analog output for amplitude or sound path in selected gate

VGA butpay Lemo-1 socket for the connection of an external display screen or beamer

Probe adrementions BNC

Dialog tamguages lish, French, Italian, Portuguese, Spanish, Danish, Swedish, Norwegian, Finnish, C Battery optration or 6 C-cells (NiCad, NiMH or AlMn), operating time: 14 hours with Li-ion battery (6 Power packe battery polarings reported to 265 VAC);

Operating voltage: 6 to 12 VDC

Current consumption: max. 9 W, depending on the setting

Weight2 kg, 4.9 lbs., including batteries

Size 177 mm x 255 mm x 100 mm, 7.0" x 10" x 3.9" (H x W x D)

Environmental class: IP 66 Shock proof acc. to DIN IEC 68: 6 ms, 60 g, 3 shocks per orientation Vib to DIN IEC 68: 0 - 150 Hz, 2 g, 20 cycles per orientation

Operating temperature: 0° to 60°C; 32° to 140°F (-10°C; 14°F on special request)

Storage temperature: -20° to 60°C; 4° to 140°F

Data Logger Option

Mem5r@Capacitygs, 500 A-scans for the readings, 100 jobs, 10 comment texts per job

Storaßbeindaptithgsand sound path differences of all gates, amplitudes (% SH, dB-to-threshold, dBto-c Lines\urobermofsines: maximum 5,000 (Linear file with one column), numerical indexing Number of column Tolerlangermandition acceptance level with monitor function

Minin Submagea di tilge cariptiume m value measured in continuous scanning, display of the value 3 seconds Monito a draitie nal independent gate in color bar mode

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