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.

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{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.
- true DGS® angle beam transducers and software 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, @@dcity5,000 m/s, 40 to 600 inch/ms variable in steps of 1 m/s, 0.1 inch/ms and fixed program Displayodelay to 1,000 mm, -0.3 to 40" (340 µs)

Probe the leage us

Auto Idabbration nt and setting of sound velocity and probe delay using two known calibration echoes Pulse2120tenfişity∩F

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

Pulse4 nepte;titionHfr;equiembby in 10 steps

Frequency tayings (1.35 dtB) 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 dalB, 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 Soundigitathchise to make the path (projection distance, depth) between initial pulse and the first echo Measucement without item ge up to 99.99 mm/ 0.1 mm within a range from 100 to 999.9 mm/ 1 mm at Amplitudes disertally eight

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

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

Displayedd padin greduced) projection distance, depth, amplitude for every gate, userconfigurable at A-scanarium distance and a scan freeze, A-scan comparison, echo dynamics (envelope), peak echo Color Patrections polor-coded display of legs in angle testing, adaptation of background color to the light DAC (DTGGL(D) 156) DAC and USM 35X S: Distance- Amplitude Curves (DAC) or TCG line (TCG) with DGS (D) 35X S: DGS curves for single-element and dual-element probes (B1S, B2S, B4S, MED Display 6 size (A) x 6 solution (W x H)

320 x 240 pixels

A-scart & izem/ xesso tutio 4.6" x 3.2"

320 x 220 pixels (zoom)

Unitsnorfimeals urement

Data 800 mosty ument setups or reports, including AScans can be stored, recalled, printed or exported **Direct splaymsertation** ntents, report including A-scan, reading, function list (parameter dump)

PrinterPdDvekJet, HP LaserJet, HP DJ 1200 (DeskJet), HP LJ 1012 (LaserJet), EPSON FX/LX, SEIKORS 232pinterSade, bi-directional, 300 - 57,600 baud An USB adapator cable can be provided to connecting the control of the

Additional analog output for amplitude or sound path in selected gate

VGA butpart 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 Battelryiop trattion or 6 C-cells (NiCad, NiMH or AlMn), operating time: 14 hours with Li-ion battery (6 Power packé batterlypchangsupphe (ation 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

Memory Ocapacity gs, 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-clines\undersymboldenvorsines: maximum 5,000 (Linear file with one column), numerical indexing Number of colorance reacceptance level with monitor function

Minir@tonageadingecaptionem value measured in continuous scanning, display of the value 3 seconds
Monitoagaitienal independent gate in color bar mode
{tab=Download} {loadposition tab_download} {/tabs}

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GE Measurement & Control:

NPC-100 (Plate) NPC-100T (Tape and Reel)