Ultrasonic Thickness Gauges
mP-200L / mP1200-DL / compu-T

mP200L
- 200 reading data logger
- Printer Port
- Lemo type connectors

compu-T
- Excellent low cost equipment for corrosion surveys

mP1200-DL
- 1200 reading data logger with excellent memory management (100 files)
- 10 years data retention without power
- Multi-function unit with Hi/Low gain settings and backlit LCD
- PC/Printer interface with Data Transfer Utility
- High quality mPL series probes with lemo type connectors
- Resolution 0.01 / 0.1mm & 0.001 / 0.01 inch

(mP200L)   *(mP1200-DL)*   *(compu-T)*

(Curvature Sample)

(Stepwedge WS220)

Introduction

The Ultrasonic Thickness Gauge measures the round trip time of the ultrasound sent by the probe in the thickness sample. The microprocessor converts this time into thickness or velocity readings displayed on the LCD. The acoustic coupling (oil, etc.) between the probe and the sample is indicated on the display. Operating on dry cells these 'UTGs' feature keypad controls, auto-off, last reading hold, Lo-Batt and other legends. As a "PROBE" block is provided on the UTG, it can be calibrated with just one known thickness sample. The UTGs can also be calibrated by directly entering known velocity in the range 1000 to 9999 meters / second. The UTGs are housed in rugged ABS cabinets and the weight is just 350 grams.

To check the consistency of the UTGs, step wedges with 9 steps, type WS210 (2-10 mm) and WS220 (2-20 mm) are available in mild steel. The UTGs are supplied in leather cases and/or wooden cases.

mP1200-DL is a multifunction unit, it measures thickness in normal mode or high speed record mode when it holds the lowest thickness reading. It also features low thickness alarm, selectable gain, backlit LCD and a PC / printer port. The 1200 reading data logger can be divided into a maximum of 99 files with direct access to individual file and location within a file. The interface cable RS2 with DTU (Data Transfer Utility) helps to transfer the data logger to a PC. This can be further processed by the PC using standard editors.

mP-200L & compu-T have been in production for the past many years and are extremely field proven for corrosion surveys. The reading in the Data Logger can be recalled either on the display or can be printed out using mPRINT or any standard printer using Centronics-8 interface which connects between the mP-200L and the standard printer.

Measurement of wall thickness with Pulsecho thickness gauges is an accepted method for inspection, quality control, corrosion monitoring and maintenance by many inspection authorities.

Pulsecho Systems

Ultrasonic Thickness Gauges

mP-200L / mP1200-DL / compu-T

Technical Data	compu-T	mP200L	mP1200-DL
Frequency (MHz)	2.5	2.5 and 5.0	2.5 and 5.0
Range (mm)	1.5 to 99.9	1.5 to 199.9	0.7 to 300
Probes - Standard	mPSS-2	mPSS-5	mPL510
Resolution (mm)	0.1	0.1 & 0.01	0.1 / 0.01 mm & 0.001 / 0.01 Inch
Accuracy (mm)	± 0.1	± 0.1 or ± 0.03	± 3 counts
Output	—	to mPrint or Centronics-8	To mPrint or through RS2/DTU to PC
Logger (No. of readings)	—	200 in one file	1200 in 1-99 files
LCD Display	3.5 digits with legends	5 digits with legends	Backlit 4 digit with special legends
Battery (AA)	4	4 Rechargeable	3
Life (Hours)	30 - 40	30 - 40	50 - 60

Probes Table	Frequency (MHz) / Face Dia. (mm)	Thickness Range (mm)	Job OD (mm)	Job Temp °C Couplant
mPSS-2	2.5 / 10	1.5 - 100	>40	-5 to 70 °C Oil, Glycerin etc
mPSC-2	2.5 / 10	1.5 - 15	25 to 40	
mPSS-5	5 / 10	1.5 - 60	>40	
mPSC-5	5 / 10	1.5 - 15	>25 to 40	
mPSS-200	2.5 / 10	10 - 200	>80	
mPL510	5 / 12	1.3 - 60	>25	
mPL210	2.5 / 12	5 0 200	>50	
mPTH-2	2.5 / 10	2 - 25	>80	0 to 250 °C High Temp. Couplant (CTH)
mPHL-2	2.5 / 12	2 - 25	>80	

Pulsecho Systems