

# ATG PLUS



## AIR-CALIBRATION AGC (AUTOMATIC GAIN CONTROL) DIGITAL THICKNESS GAUGE

The ATG Plus is an advanced ultrasonic thickness gage. Uses dual element transducer for internally corroded applications, features include thru-coating and echo-to-echo. It light weight and sunlight bright color LCD display. ATG Plus with large digital, B-SCAN and many functions. It's very good for field thickness corrosion measurement and analysis.

The ATG Plus is built by high impact aluminum housing. The rubber side provides protection for withstanding use in harsh industrial enviromental application



# AVG PLUS



## FEATURES

- AIR-CALIBRATION WITHOUT TEST BLOCK
- AGC (AUTOMATIC GAIN CONTROL)
- LIGHT WEIGHT AND LARGE DIGITAL DISPLAY
- SIMPLE TO USE
- TRUE COLOR TFT DISPLAY WITH ADJUSTABLE LIGHT INTENSITY
- THICKNESS, VELOCITY, AND TIME-OF-FLIGHT MEASUREMENT
- DIFFERENTIAL MODE AND REDUCTION RATE MODE
- PULSE-ECHO AND ECHO-ECHO THRU-PAINT MEASUREMENT
- SINGLE POINT AND TWO POINT CALIBRATION
- B-SCAN TRACE FREEZE AND SAVE
- AUTOMATIC VELOCITY MEASUREMENT
- LARGE AMOUNT STORAGE MEMORY
- SINGLE BOARD PCB DESIGN, RELIABLE AND SOFTWARE UPGRADE EASILY
- EASY SOFTWARE UPGRADE
- 32 BIT WINDOW 7 AND 64 BIT WINDOW 8 REPORT SOFTWARE
- ON/OFF SWITCH CONTROL POWER ON/OFF

## LARGE DIGITAL DISPLAY



## B-SCAN DISPLAY

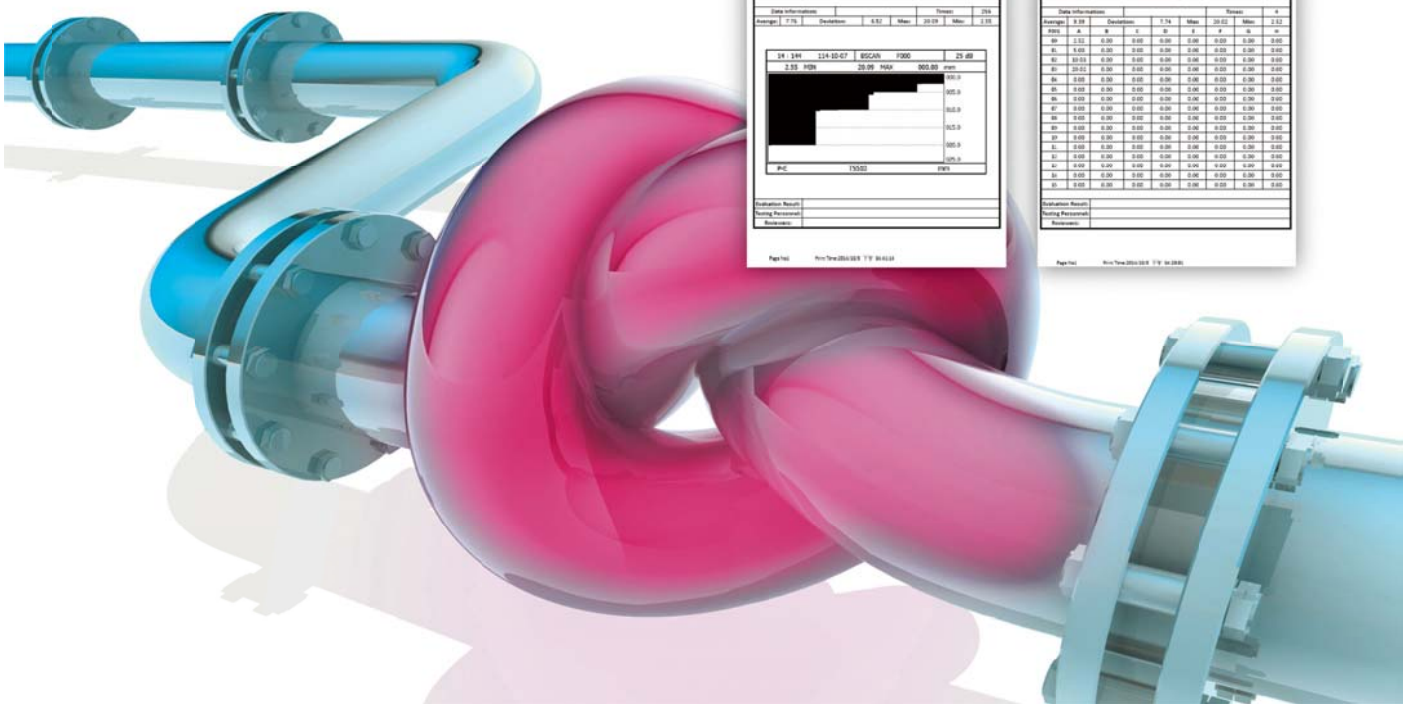


## DATA REPORT



## WINDOW REPORT SOFTWARE

Ultrasonic Thickness Measurement Report											
Test Date:	Report No.:										
Test Site:	Test Name:										
Gauge Information											
Model:	AVG Plus	Range:	mm								
Probe Information											
Probe No.:	Type:	Frequency:									
Measurement Information											
Test Site:	Test Name:	Material:	Velocity:								
Surface:	Thickness:	Material:	Velocity:								
Range Information											
Average:	2.52	Deviation:	1.74	Min:	2.02	Max:	2.12				
Min:	A	B	C	D	E	F	G	H	I	J	K
01	2.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03	10.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04	20.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Calculation Report											
Testing Parameters											
Remarks:											
Page No.      Rev: 001/001 T.Y. 04/10											



## EAST OPERATOR INTERFACE WITH DIRECT ACCESS TO ALL FUNCTIONS

14:46 10-07-14	
FILE	F001
PROBE	TS510
UNITS	mm
VELOCITY	5920 m/s
BRIGHTNESS	—
HOME	NEXT

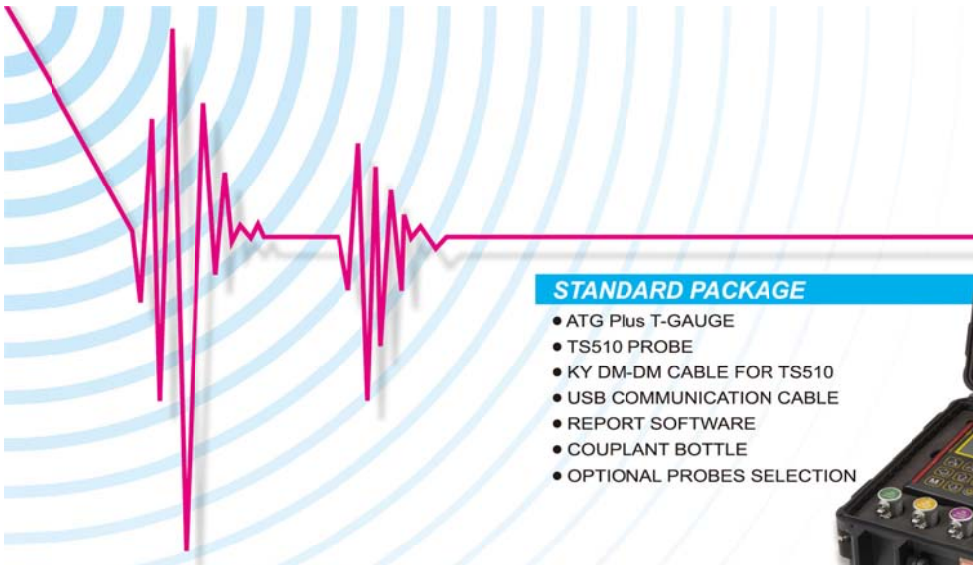
14:46 10-07-14	
THICKNESS	025
MAX ALARM	025
MIN ALARM	000
BSCAN MAX	025
BSCAN MIN	000
BSCAN FILE	000
HOME	BSCAN
	NEXT



## SPECIFICATIONS

DESCRIPTION	TECHNICAL DATA
OUTSIDE DIMENSION	120×79×31 (mm)
WEIGHT	300 g (INCLUDING BATTERIES AND COVER)
OPERATING TEMPERATURE	-20~45°C
POWER	THREE 1.5V AA TYPE BATTERIES
POWER ON/OFF	TRUN ON/OFF BY THE SWITCH
BATTERY LIFE	APPROX. 60 HOURS
LCD DISPLAY	320×240 DOT-MATRIC TRUE COLOR TFT SCREEN
PROBE	DUAL ELEMENT PROBE
MEASURING RANGE	0.65~420 mm ( DEPENDING OF THE PROBES )
DIGITAL RESOLUTION	0.01 mm
OPERATING PRINCIPLE	PULSE ECHO WITH DUAL ELEMENT TRANSDUCER
VELOCITY RANGE	650~9999 (m/s)
PULSER VOLTAGE	150 V, NEGATIVE PULSER
dB GAIN SETTING	12-50 dB
DISPLAY UNIT	inch/mm
V-TEST FUNCTION	AUTOMATIC VELOCITY MEASUREMENT
V-PASS CORRECTION	AUTOMATIC CALIBRATION
LANGUAGE	ENGLISH
DISPLAY MODE	NORMAL, MIN/MAX CAPTURE, DIFF/PR%, B-SCAN, LARGE DIGITAL DISPLAY
DISPLAY	DIGITAL, B-SCAN
B-SCAN SAVE	250 B-SCAN RECORD
MEASUREMENT POINT STORAGE	128,000 POINTS WITH 1000 FILE NAME
DISPLAY LIGHT INTENCITY	ADJUSTABLE 8 STEPS INTENSITY CONTROL
OUTPUT	USB PORT, 2.0
REPORT SOFTWARE	DATA VIEW WITH 32/64 BIT WINDOW SOFTWARE





**STANDARD PACKAGE**

- ATG Plus T-GAUGE
- TS510 PROBE
- KY DM-DM CABLE FOR TS510
- USB COMMUNICATION CABLE
- REPORT SOFTWARE
- COUPLANT BOTTLE
- OPTIONAL PROBES SELECTION



**OPTIONS**

1. TS112
2. TS210
3. TS510
4. TS400
5. TS500
6. TS600
7. HT510
8. KYDM-DM5
9. KY DM-DMD-5
10. KY DM-DM HT-5
11. S-4 TEST BLOCK, 2,5,5,10,20 mm
12. KY-5S 5 STEP PIPE BLOCK ,5,5,10,20 mm
13. KY-5SM 5 STEP PIPE BLOCK 1,2,3,4,5 mm
14. KY-7S 7 STEP PIPE BLOCK 1,1,5,2,4,6,8,10mm

TYPE	TS112	TS210	TS400	TS500	TS510	TS600	HT510
FREQUENCY	1MHz	2 MHz	10MHz	5MHz	5MHz	5MHz	5MHz
CRYSTAL SIZE	12 mm	10 mm	5 mm	5 mm	10 mm	10 mm	10 mm
MEASUREMENT	2-200 mm	2-250 mm	0.6-40 mm	0.8-60 mm	1.0-350 mm	2-60 mm	3-80 mm
TEMPERATURE RANGE	-10 TO 70 C	-10 TO 70 C	-10 TO 70 C	-10 TO 70 C	-10 TO 70 C	-10-150 C	10-300 C

**PROBE CABLE**

PROBE	CABLE PART NO.	DESCRIPTION
TS112	KY DM-DM-5	DUAL LEMO 00-LEMO00, 1.5 m
TS210	KY DM-DM-5	DUAL LEMO 00-LEMO00, 1.5 m
TS400	KY DM-DMD-5	DUAL LEMO 00-DUAL MICRODOT, 1.5 m
TS500	KY DM-DMD-5	DUAL LEMO 00-DUAL MICRODOT, 1.5 m
TS510	KY DM-DM-5	DUAL LEMO 00-LEMO00, 1.5 m
TS600	KY DM-DM HT-5	ARMORED DUAL LEMO 00-LEMO 00 1.5 m
HT510	KY DM-DM HT-5	ARMORED DUAL LEMO 00-LEMO 00 1.5 m



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