

# IMG-4B PLUS



## REAL-TIME A-SCAN DIGITAL THICKNESS GAUGE

The IMG-4B 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. IMG-4B PLUS with A-Trace, large digital, B-scan many function. It's very good for field thickness corrosion measurement and analysis.

The IMG-4B PLUS is built by high impact ABS housing. The silicone rubber protection cover provides protection for withstanding use in harsh industrial environmental application



# IMG-4B PLUS



## FEARTURES

- LIGHT WEIGHT REAL-TIME A-SCAN DISPLAY
- 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
- AUTOMATIC ASCAN TRACE CALIBRATION
- A-SCAN TRACE FREEZE AND SAVE
- 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

A-SCAN TRACE



LARGE DIGITAL DISPLAY



B-SCAN DISPLAY





**EAST OPERATOR INTERFACE WITH DIRECT ACCESS TO ALL FUNCTIONS**

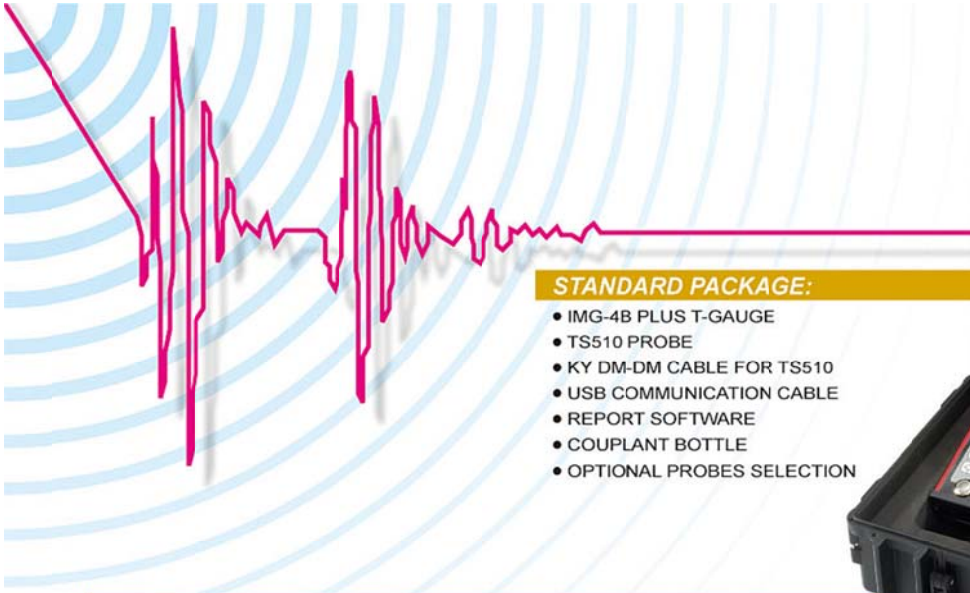
|                    |                 |
|--------------------|-----------------|
| 08:45 05-08-14     |                 |
| <b>FILE</b>        | <b>F 001</b>    |
| <b>PROBE</b>       | <b>TS510</b>    |
| <b>UNITS</b>       | mm              |
| <b>VELOCITY</b>    | <b>5920</b> m/s |
| <b>RECTIFICATE</b> | <b>RF</b>       |
| <b>BRIGHTNESS</b>  | —               |
| <b>A-SCAN</b>      | <b>NEXT</b>     |

|                   |              |             |
|-------------------|--------------|-------------|
| 08:46 05-08-14    |              | mm          |
| <b>THICKNESS</b>  | <b>255</b>   |             |
| <b>MAX-ALARM</b>  | <b>255</b>   |             |
| <b>MIN-ALARM</b>  | <b>000</b>   |             |
| <b>BSCAN MAX</b>  | <b>025</b>   |             |
| <b>BSCAN MIN</b>  | <b>000</b>   |             |
| <b>BSCAN FILE</b> | <b>NULL</b>  |             |
| <b>A-SCAN</b>     | <b>BSCAN</b> | <b>NEXT</b> |

**SPECIFICATIONS**

| DESCRIPTION                | TECHNICAL DATA   |
|----------------------------|--|
| OUTSIDE DIMENSION          | 155x80x35 (mm)   |
| WEIGHT                     | 275 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. 40 HOURS   |
| SCREEN SIZE                | 320x240 DOT-MATRIC TRUE COLOR TFT SCREEN                                 |
| PROBE                      | DUAL ELEMENT PROBE   |
| MEASURING RANGE            | 0.5~350 mm ( DEPENDING OF THE PROBES )                                   |
| DIGITAL RESOLUTION         | 0.01 mm  |
| OPERATING PPRINCIPLE       | PULSE ECHO WITH DUAL ELEMENT TRANSDUCER                                  |
| VELOCITY RANGE             | 500~9999 (m/s)   |
| PULSER VOLTAGE             | 150 V, NEGITIVE PULSER   |
| DB GAIN SETTING            | 12-52 dB   |
| UNIT                       | inch/mm  |
| V-PASS CORRECTION          | AUTOMATIC CALIBRATION  |
| LANGUAGE                   | ENGLISH  |
| DISPLAY MODE               | NORMAL, MIN/MAX CAPTURE, DIFF/PR%, A-SCAN, B-SCAN, LARGE DIGITAL DISPLAY |
| A-SCAN TRACE DISPLAY MODE  | FULL WAVE, RF  |
| DISPLAY MODE               | A-SCAN, DIGITAL, B-SCAN  |
| A-SCAN SAVE                | 250 A-SCAN TRACE   |
| B-SCAN SAVE                | 250 B-SCAN RECORD  |
| MEASURE MENT POINT STORAGE | 128,000 POINTS WITH 1000 FILE NAME                                       |
| DSIPLAY LIGHT INTENCITY    | ADJUSTABLE 8 STEPS INTENSITY CONTROL                                     |
| OUTPUT                     | USB PORT, 2.0  |
| REPORT SOFTWARE            | DATA VIEW WITH 32/64 BIT WINDOW SOFTWARE                                 |





**STANDARD PACKAGE:**

- IMG-4B PLUS T-GAUGE
- TS510 PROBE
- KY DM-DM CABLE FOR TS510
- USB COMMUNICATION CABLE
- REPORT SOFTWARE
- COUPLANT BOTTLE
- OPTIONAL PROBES SELECTION



- 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 | -10-350 C | 10-500 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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