

ULTRAMAC 630-4T Ultrasonic Thickness Measuring System for **Plastic Pipe**



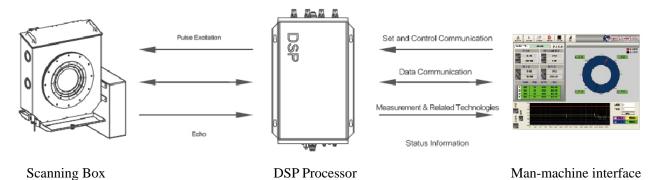






System Structure

The measurement system is formed by hardware components such as scanning box, DSP signal processor and industrial personal computer (IPC), like the following figure:



Company: WalthMac Measurement&Control Technology Co., Ltd.

Address: No. 2, Baiyang Street, Kechuang Park, Mianyang, Sichuan, P.R. of China.

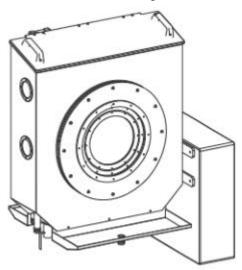
Phone: +86-816-2532848 Fax: +86-816-2603578

E-mail: sales@walthmac.com Website: http://www.walthmac.com

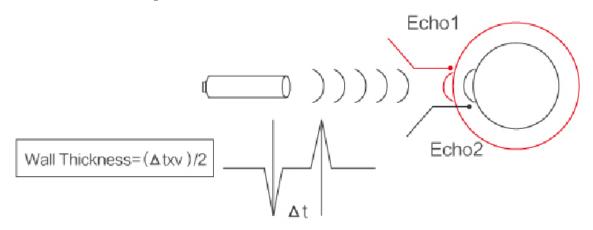


Scanning Box

The scanning box is equipped with ultrasonic measuring probe inside and has a probe cooling and purging device. The ultrasonic probes convert DSP signal processing pulse incentive energy into ultrasonic wave and send it out, and convert echo small signals into weak electricity signals and send it back to the DSP signal processor.



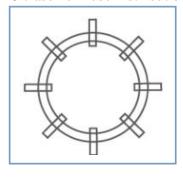
The Measurement Principle of Probe is as Follows:



 $\triangle \mathbf{t}$ = The interval time between the two waves

V= The acoustic wave speed in the material

Ultrasonic Probe Distribution Structure, As Shown:



- 1. The built-in fixed ultrasonic transmitter can measure various range of pipe wall Thickness.
- 2. The number of ultrasonic probe: 4, 8, 16.
- 3. The ultrasonic probe is IP68 protection grade ultrasonic probes can be directly fixed in the scanning box.
- 4. It can be used for multi-layer pipes thickness measuring with separately display of each layer (optional).

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Man-Machine Interaction (MMI)-Display Control Hardware and Software:

The Datase-15H industrial tablet computer with DATASE1000R ultrasonic measurement control software is configured, which is used as the tool of data interchange, data acquisition and data storage. It use the high-end 12 or 15-inch TFT color touch LCD screen. The whole machine adopts the ultra-thin and fanless structure, with light weight and good heat dissipation, therefore, it can be used in a continuous operation environment with dusty, high electro-magnetic interference and high ambient temperature, The system has a large-capacity hard disk which can store production data for a long time.

Technical Parameter

Configuration	
4 probes, the OD Measuring range:0.25-12mm	
4 probes ,the OD Measuring range:3.75-24mm	
4 probes, the OD Measuring range:3.75-32mm	
4 probes, the OD Measuring range:3.75-63mm	
4 probes, the OD Measuring range:20-125mm	
4 probes, the OD Measuring range:20-125mm	
4 probes, the OD Measuring range: 32-160mm	
4 probes, the OD Measuring range:32-160mm	
4 probes, the OD Measuring range: 90-250mm	
4 probes, the OD Measuring range:90-250mm	
4 probes, the OD Measuring range: 110-315mm	
4 probes, the OD Measuring range:110-315mm	
4 probes, the OD Measuring range:160-450mm	
4 probes, the OD Measuring range: 160-450mm	
4 probes, the OD Measuring range: 250-630mm	
4 probes, the OD Measuring range:250-630mm	
4 probes, the OD Measuring range:315-800mm	
4 probes, the OD Measuring range:315-800mm	
4 probes, the OD Measuring range:560-1000mm	
4 probes, the OD Measuring range:560-1000mm	
4 probes, the OD Measuring range: 800-1200mm	
4 probes, the OD Measuring range: 800-1200mm	
4 probes, the OD Measuring range: 800-1600mm	
4 probes, the OD Measuring range: 800-1600mm	

Note: The model and size may be changed without giving notice.

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