



# WALLSTARTER

Economic Processor Solution  
for UMAC® Ultrasonic Eccentricity &  
Wall Thickness Measurement Systems

## What is WALLSTARTER?

WALLSTARTER is a processor system for data acquisition, processing and displaying of all relevant data from ultrasonic scanners of the UMAC® series from Zumbach.

The WALLSTARTER system consists of two components:

- An USYS WALLSTARTER processor/display unit (as table top or 19" rack mount version) for the parameter input and display in graphical and numerical form of the measured data.
- A high-tech UMAC® CI B measured value processor for ultrasonic measurements.

WALLSTARTER offers, thanks to its excellent price-performance ratio an ideal solution for quality testing of single layer plastic tubes and hoses. It measures and monitors the compliance to specification of the following product parameters:

- Wall thickness
- Wall thickness distribution
- Eccentricity



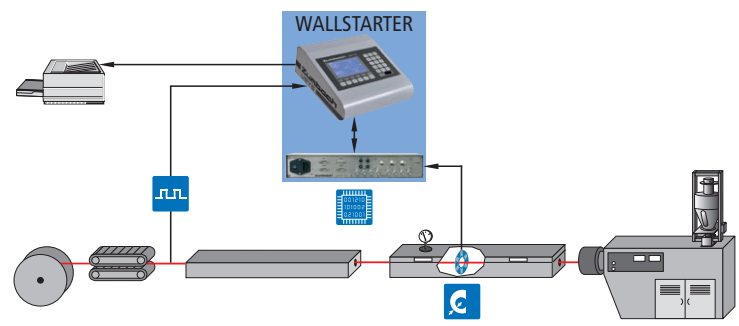
## Complete Systems

Thanks to the wide range of UMAC® ultrasonic scanners, WALLSTARTER can be easily integrated to a complete measurement and processor system, focusing on the specific needs of your individual extrusion process.

## Application

Single layer tubes and hoses of all kinds:

- Gas and pressure tubes
- PE-X tubes
- Cable conduit tubes
- Drain pipes
- Sanitary/Heating



## Decisive Advantages

- Attractive pricing thanks to minimal equipment for single layer products
- Easy setup and operation
- Shorter start-up times thanks to early acknowledgement of the eccentricity
- Documented quality
- Large choice of ultrasonic scanners – for each product

## Main Data

Measuring principle	Time based / Ultrasonic
Wall thickness range	Approx. 0.5...99.95 mm (.02...4 in.), depending on product
Diameter range (depending on scanner)	Min. = approx. 2 mm (.08 in.) / max. 350 mm (13.8 in.), larger diameters on request
Repeatability	Down to $\pm 0.001$ mm ( $\pm .00004$ in.), depending on product and measuring mode
Measuring rate	100 measurements/s
Transducer frequency	2.25...20 MHz (depending on product and model)
Number of transducers	Configurable: 4, 6 or 8
Temperature range	Operating: 0...50°C (32...122°F), Transport/Storage -20...50°C (-4...122°F)
Atmospheric humidity	Max. 80% (non-condensing)
Mains supply	USYS WALLSTARTER: 115 V~ / 230 V~ (-10...+6%); 48...62 Hz, 30 VA UMAC CI B: 100...240 V~; 48...62 Hz
Weight	Processor/display unit: table top model = 2.7 kg (5.95 lbs.), 19" version = 11.5 kg (25.35 lbs.) UMAC CI B measured value processor: 5 kg (11.02 lbs.)

• Technical specifications are subject to change without notice

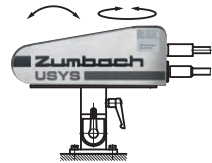
## Flexible Mounting Possibilities

### Table top use

Standard



With fixation set for table top  
no. USY.0002.930



### Wall mounting

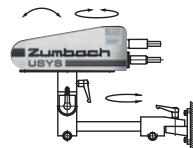
Using the fastening rails included  
in the delivery.



By means of the rotary holder,  
no. USY.0002.910



With pivot arm, no. USY.0002.920



### Mounting onto a floor stand ST 2

Thanks to a mountable support the table  
top unit can easily be added onto a floor  
stand of the ST 2 series.



Mountable support  
no. ST02.060.190

Floor stand of the  
ST 2 series

### 19" rack mounting



This 19" drawer allows the  
mounting of 1 or 2 USYS WALLSTARTER  
units.

Note:  
A suitable housing is optionally  
available (no. NE.132.3010).



## UMAC® Ultrasonic Scanners

There are many scanner models available, tailored specifically for typical products such as tubes, pipes, flexible hoses, etc.



UMAC A5CF-4K  
UMAC A10CF- / A20CF-4K  
For products up to  
 $\varnothing 20$  mm (.78 in.)

► Please ask for detailed information about UMAC scanners



UMAC R40-4K/-6K;  
UMAC R63-4K/-6K/-8K  
For products up to  
 $\varnothing 63$  mm (2.48 in.)



UMAC Z50- / Z100-4K/-6K  
UMAC Z180-6K  
For products up to  
 $\varnothing 180$  mm (7.09 in.)



UMAC R-xxx-4K/-6K/-8K  
For products up to  
 $\varnothing 350$  mm (13.78 in.)