



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



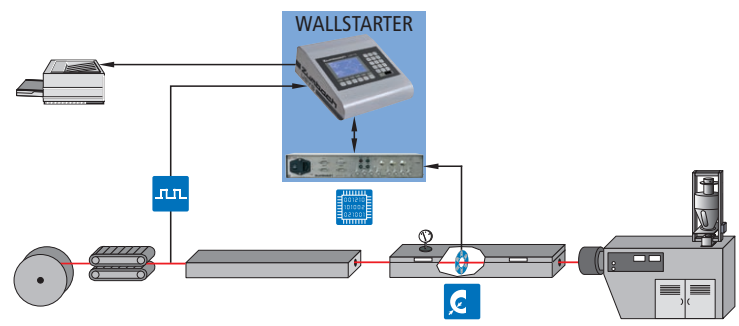
Complete Systems

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 ± 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

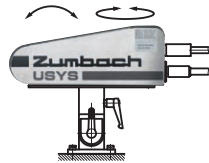
Flexible Mounting Possibilities

Table top use

Standard



With fixation set for table top
no. USY.0002.930



Wall mounting

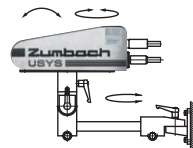
Using the fastening rails included
in the delivery.



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.)