

## UMAC<sup>®</sup> A5/10/20CF-4K

For tubing and small pipe, wire and small diameter cable extrusions  
from 0.2 up to 20 mm (.008 up to .78 in.)

The design of the UMAC A5, A10 and A20 ultrasonic wall thickness scanner assemblies allow for true non-contact wall thickness measurements of:

- Tube
- Small pipe
- Wire insulation
- Jackets of small cables

Measuring close to the extruder (where the product orientation is stable and practically free from rotation) allows for quick and efficient centering. The results of any die adjustments are visible instantly, confirming to the operator that the actions taken, brought the results intended. Start-up scrap is reduced to a minimum.

The fast controller response, made possible by proximity to the extruder, will result in a more uniform product, keeping the extrudate within specifications, even during ramping phases.

Each scanner model is available in two versions:

- **K version:** with height adjustment from above for open trough installation
- **V version:** with height adjustment from outside of the vacuum tank

The scanners are designed for easy incorporation into most vacuum tanks or open troughs. Built from resin (POM) and stainless steel, this compact scanner assembly is largely maintenance free. A height adjustment, accessible from the outside of the trough or vacuum tank, allows for easy adjustment, confirmed by the live on screen positioning display.

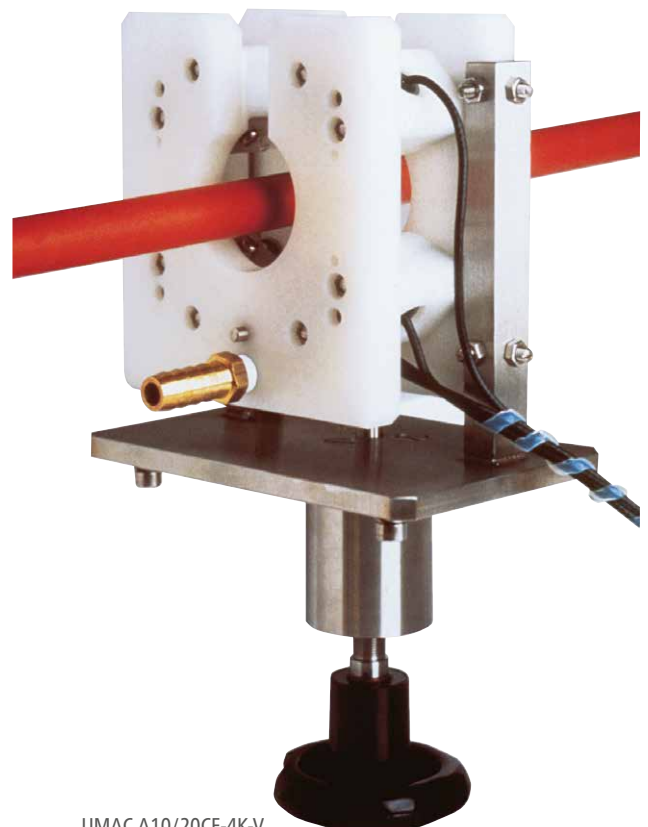
The scanner assembly is fully submerged in water. Each holder incorporates a simple, yet effective rinsing system, to keep the transducers free from impurities, deposits and air bubbles. The U-shaped design features an opening at the top, making it easy to string up the product.

The four measuring points are arranged at a 90° angle with a 45° offset from the vertical and horizontal planes, corresponding to the location of most extruder centering screws.

The scanner can be equipped with optional guide blocks to keep the product in the optimum measuring position at all times.



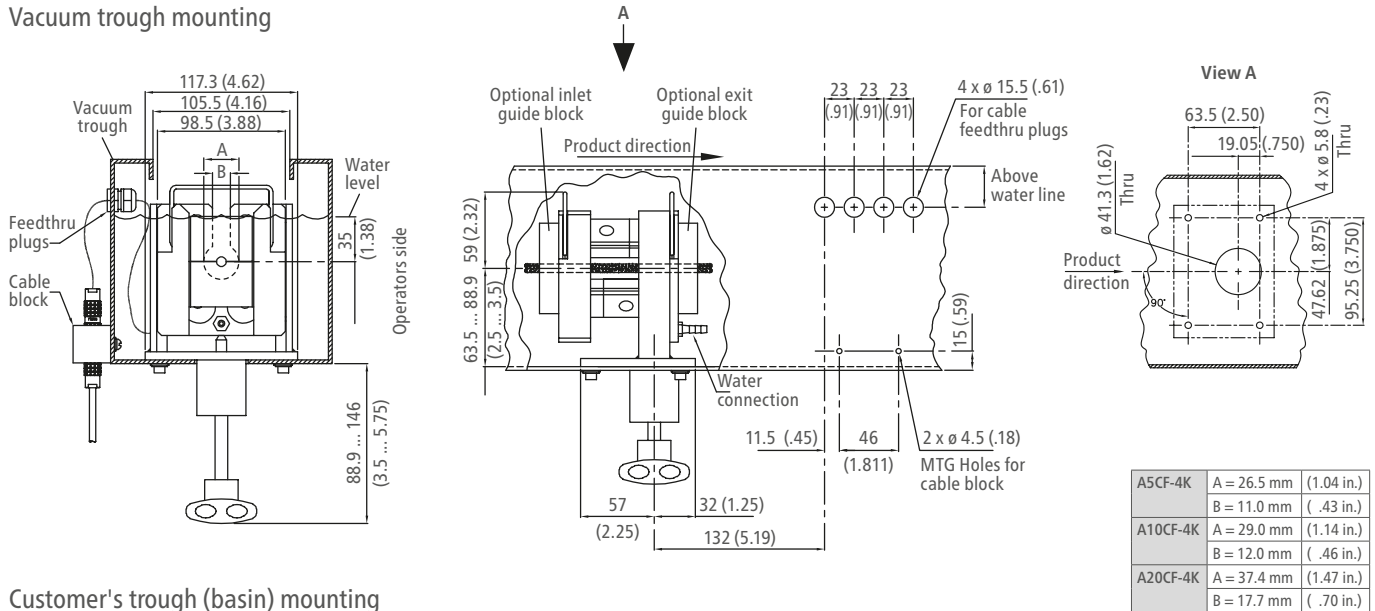
UMAC A5CF-4K-K



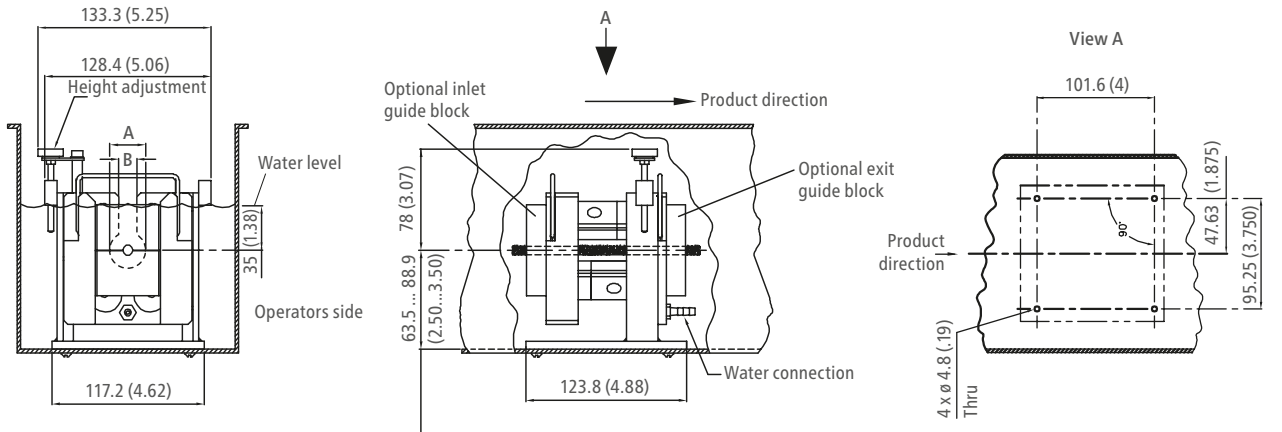
UMAC A10/20CF-4K-V

# OVERALL DIMENSIONS FOR MOUNTING INTO THE TROUGH

## Vacuum trough mounting



## Customer's trough (basin) mounting



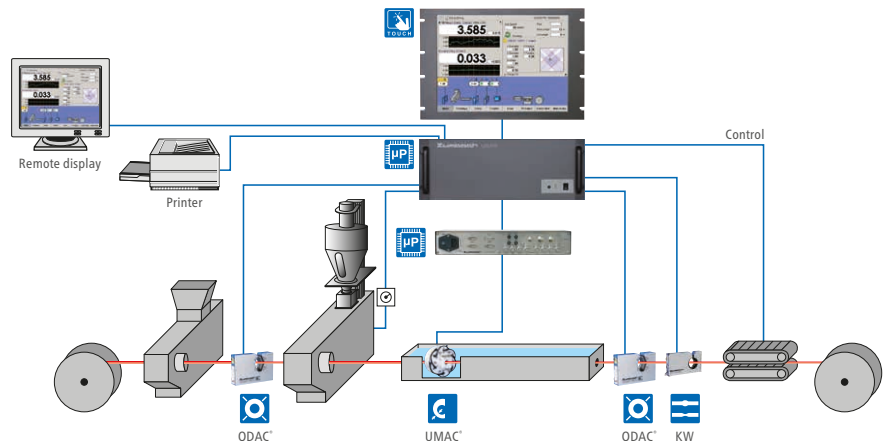
Scanner model	UMAC A5CF-4K		UMAC A10CF-4K		UMAC A20CF-4K	
	mm	inch	mm	inch	mm	inch
Product diameter range	0.2 ... 5	.008 ... .2	1 ... 10	.04 ... .4	6.4 ... 20	.25 ... .78
Product clearance	26.5	1.04	29	1.14	37.4	1.47
Height adjustment range	± 12.7	± .5	± 12.7	± .5	± 12.7	± .5
Wall thickness range*	0.064 ... 6.4	.0025 ... .25	0.13 ... 6.4	.005 ... .25	0.13 ... 6.4	.005 ... .25
Product position tolerance	± 1.3	± .052	± 1.9	± .75	± 1.9	± .75

Dimensions in mm (inch)

- \* Based on hot measurement of PE, PVC and similar materials
- Technical specifications are subject to change without notice

## SYSTEM EXPANSIONS

ZUMBACH manufactures a wide array of precision instruments for industrial applications. By means of further components, such as USYS IPC WALLMASTER processor and display units, ODAC laser diameter scanners, KW fault detectors etc., a UMAC WALLMASTER system can be extended for any case, for the highest possible productivity and product quality. These systems can provide you with flawless SQC /SPC reports of the final product.



► Please ask for detailed documentation of other ZUMBACH instruments.

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