

Article No. S18010

Stand Alone

1

# Absorption Tester

For the determination of the water absorption time and water absorbency of tissue

For:



## MOST IMPORTANT BENEFITS:

- ✓ Fully automatic
- ✓ Entirely made of stainless steel
- ✓ Standardized immerse basket (3g±0.1 g)
- ✓ Changeable water container with capacity of 3l
- ✓ Digital display of results and statistics

 **FRANK-PTI**  
QUALITY TESTING INSTRUMENTS

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## PRODUCT DESCRIPTION

The absorption tester is manufactured from robust stainless steel. The exchangeable water container (3 liter) is lowered and raised via an integrated pneumatic cylinder. The immersion basket is located at an angle of 30° above the raising and lowering mechanism. It swings freely and is attached to the load cell that weights the sample with and without water. The digital display and controls are located on the upper part of the unit at a comfortable height.

## TEST DESCRIPTION

A sample weighing approximately 5 grams  $\pm$  0,2 g is placed in the immersion basket. The water container is filled with distilled water and the lifting and lowering mechanism is set. Pushing the start button automatically weighs the sample and the water container is lifted pneumatically. After the sample is completely immersed in the water, the start button is pressed again to determine the immersion time. Once 30 seconds have elapsed the water container is lowered. Excess water then drips back into the container from the sample for 60 seconds. Then the sample is once more weighed and the absorbency of the material is determined. The values, in relation to 1g sample weight, can be read from the digital display as values and statistics.



Sample appliance, basket and sample prepared



Sample appliance and water tank

## TECHNICAL DATA

### DEVICE / INSTRUMENT

- Lowering device for easy change of the water tank and basket
- Standardized immersion basket (3 g  $\pm$  0,1g)
- Exchangeable water tank with a volume of 3 l
- Digital display for output of values and statistics
- Display of absorbed water (g) per 1 g tissue
- Water container and basket included
- Compatible with ProbeNet

### APPLICABLE STANDARDS

DIN EN ISO 12625-8  
\*more standards on request

### MEASUREMENT

Displayed Results:	
Capacity (Wa)	[g] water absorption weight to 1 g dry weight
Capacity 5g (Wa5)	[g] water absorption weight to 5 g dry weight
Absorption time (Ta)	[s]
Automatic drip-off time	yes
Drip-off time max.	adjustable
Statistics:	min.; max.; stad. dev; mean
Load cell:	up to 10N / 1kg
Sample appliance:	basket: $\varnothing$ 50mm / 8cm
Sample width:	max. 8 cm

### CONNECTIONS

Power:	230V/50-60Hz
Water:	no
Compressed air:	4-6 bar, 6mm

### DATA

RS232:	Data output
Ethernet:	Data output. / MQTT
USB:	Updates / Service

### DIMENSIONS

Version	<b>L x H x W</b>
S18010000	350 x 700 x 300 mm
Weight	net / gross
	approx. 20 / 45 kg

### ARTICLES / MODELS

S18010000	Absorption tester derived from DIN EN ISO 12625-8
Accessories:	
S180101001	Wire Basket acc. DIN EN ISO 12625-8
S180101002	Water tank 3 l
S406900001	ProbeNet software including one license *We will gladly explain requirements on request