## **TALI 400 S**





**ITRATING APPARATUS** 

Concentration of spin bath in viscose (rayon) fiber and filament production - a key for perfect fiber and filament quality.

Our **TALI 400 S** measures the sulphuric acid and zinc sulphate concentration of the spin bath and controls the process by means of a continuous online analysis. In connection with a density measurement, also the amount of natrium sulphate can be determined. Reduced deviations of spin bath concentrations stabilize the product quality. By means of the online measurement, efficient process control is achieved, which reduces costs for labor, input of chemicals and avoid human errors.

The benefits of **TALI 400 S** have been proven for more than 20 years in numerous Viscose productions worldwide.







# **TALI 400 S**

### TITRATING APPARATUS

### Scope:

Titrating apparatus for continuous online analysis of the spin bath in viscose (rayon) fiberand filament productions to determine the concentrations of  $H_2SO_4$  (sulfuric acid) and  $ZnSO_4$  (zinc sulfate) for consequential process control, using industrially standardized signals.

### Method:

Automatic procedure based on the principle of pH titration: Solutions of alkaline NaOH (sodium hydroxide) and complex former are added to the spinbath. The amount of NaOH required to reach the equivalence point between the alkaline solution and the acid spin bath allows for calculation of the concentrations of  $H_2SO_4$ and ZnSO<sub>4</sub>.

### **Results:**

The effective concentration values are displayed graphically together with set tolerance limits. A measurement history view presents detailed information about each measurement together with time stamps.

### Measuring ranges:

H <sub>2</sub> SO <sub>4</sub> :	0 - 250 g/l
ZnSO₄:	0 - 250 g/l
Na <sub>2</sub> SO <sub>4</sub> :	up to 250 g/l

### Accuracy:

H <sub>2</sub> SO <sub>4</sub> :	< ± 1.0 g/l
ZnSO₄:	< ± 1.0 g/l
Na <sub>2</sub> SO <sub>4</sub> :	< ± 1.0 g/l

## Measurement frequency: Programmable

### Output signal:

Analogous 0 - 20 mA or 4 - 20 mA for  $H_2SO_4$  and ZnSO<sub>4</sub> concentrations Analogous 0 - 20 mA or 4 - 20 mA for Na<sub>2</sub>SO<sub>4</sub> concentration

### Closed control loop:

The output signals can be used for automatic dosing and control of  $H_2SO_4$  and  $ZnSO_4$  to maintain the concentration within set limits

### Alarm levels:

Can be specified individually according to requirements

### Ambient conditions:

Temperature max. 35 °C; relative humidity max. 90 %; not condensing

### Dimensions:

Height:	1600 mm
Width:	1040 mm
Depth:	725 mm
Weight:	170 kg

### Power supply:

230/115 VAC ± 10% 50/60 Hz, 40 W mono phase triple wired (direct connection) Phase - neutral feeder - ground connection

Technical data and pictures are subject to change.

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