

# ZS-96A

continuous measurement  
of exhaust humidity



## Energy is expensive!

ZS-96A sensors minimize the consumption of energy in dryers/stenters.

- water-sensitive, dual zirconium cell
- exceedingly accurate, and impervious to other gases
- needs little attention, because it cleans itself
- owes its versatility to built-in intelligence
- can be added to control systems such as ECOPAC and OPTIPAC

## What it does:

Drying is all about extraction of moisture; in the context of textile finishing, by mechanical extraction systems, followed as a rule by a process of evaporation. If steam is to be exhausted economically, the caloric content of the hot air should be utilized to the very utmost before the steam-saturated air is exhausted. The ZS-96A provides a means of measuring the degree of humidity in an exhaust duct or dryer, thereby ensuring that the entire drying process is being conducted as economically as possible.

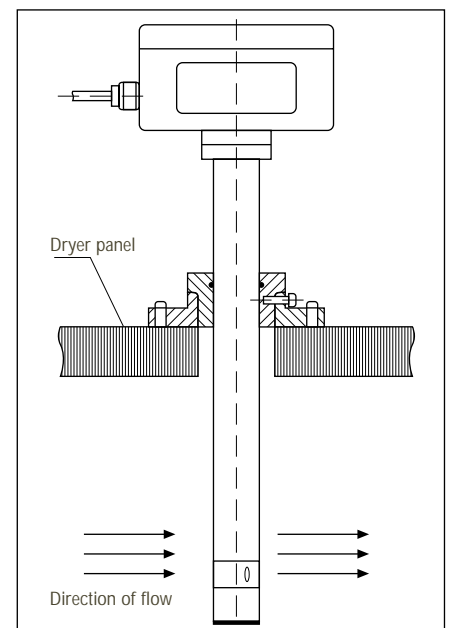
## How it measures

The sensor is basically a zirconium cell which is capable of measuring the percentage of steam in air, even if it is combined with other gases. By using the patented, dual-sensor monitoring system, the amount of water in the air can be established exactly, irrespective of the presence of other gases (eg. fumes from the dryer's heating medium). The sensor is heat-proof and repels fume-laden deposits. Sensors in dryer exhausts tend to accumulate such heavy deposits and therefore need to be cleaned frequently. This work can be largely avoided by using ZS-96A sensors.

„stand alone“, can be used as an independent humidity monitor for user-specific applications, and can be supplied with digital display.

„in system“, used amongst other things as humidity sensor for the OPTIPAC VMC-10A Stenter-control System; it can be easily added to the system, or retrofitted into an existing stenter control system.

Typical installation:



Measurement

Control

Automation

