

FOR PVA FILM CROSSLINKING PROCESS
POTASSIUM IODIDE AND BORIC ACID
CONCENTRATION CONTROL DEVICE
CCC METER VIII

USED IN THE MANUFACTURE OF POLARIZING FILM
(PVA FILM CROSS-LINKING PROCESS),
AUTOMATIC MEASUREMENT OF POTASSIUM IODIDE
AND BORIC ACID CONCENTRATIONS!
ACHIEVES STABLE QUALITY.

**【Measurement
concentration range】**

KI 0.01~10.0%
H₃BO₃ 0.01~7.0%

**【Measurement method】
Conductivity &
Refractive index**

**【Measurement
compatible temperature】
30~80°C**



 **TOKAI SENKO**

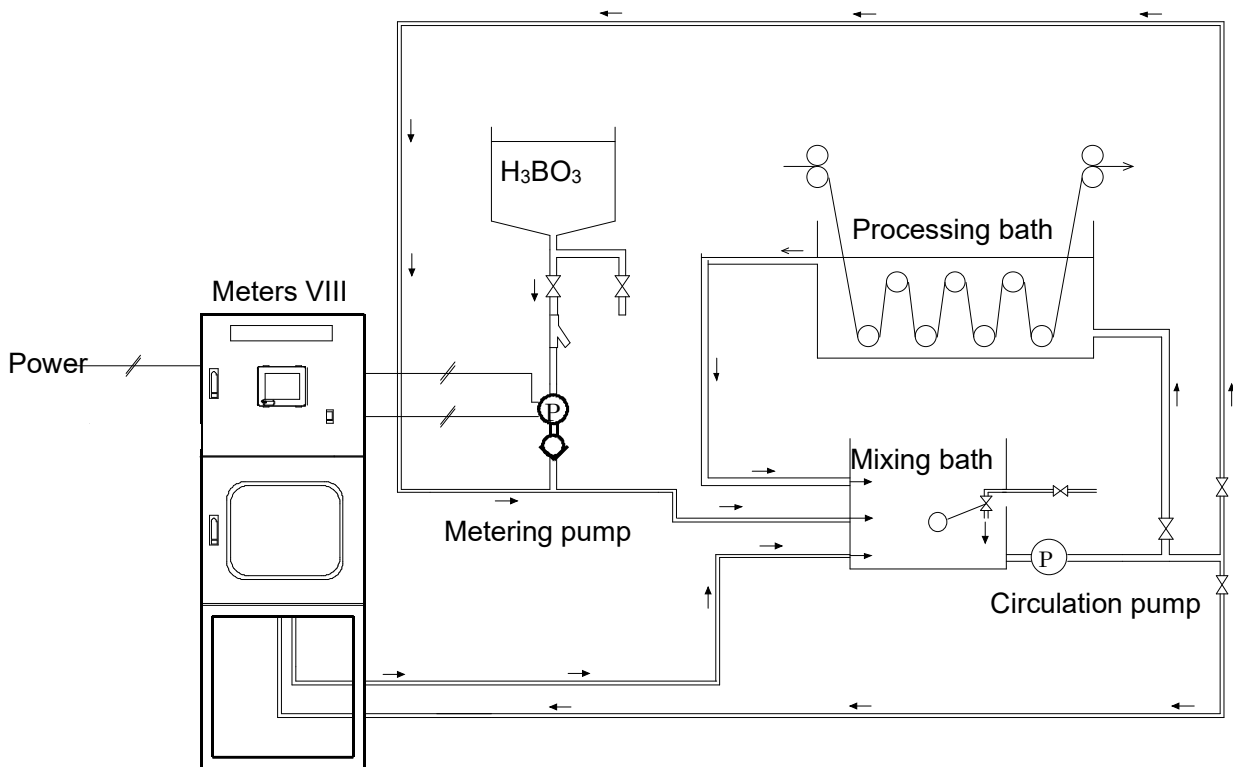
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Meters VIII FLOW SAMPLE



【Measurement principle】

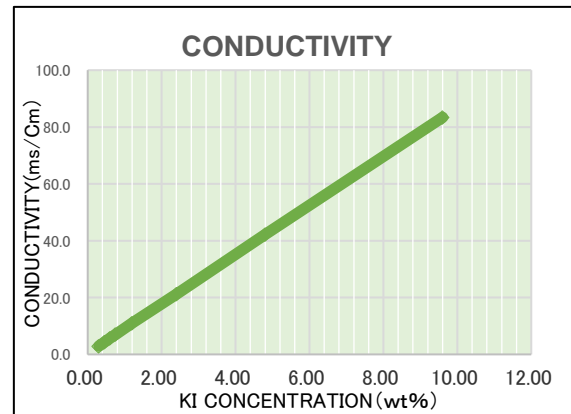
The electric conductivity (conductivity) and refractive index of the potassium iodide / boric acid solution are measured to detect the concentration.

The potassium iodide concentration is measured by electrical conductivity, and the boric acid concentration is measured by the refractive index.

Electrical conductivity

Electrical conductivity (conductivity) is a physical characteristic value that indicates the ease of electrical conduction of a substance.

The electric conductivity (conductivity) of the iodine-potassium iodide solution is measured, and the potassium iodide concentration is detected from the relationship between the concentration and the conductivity.



Refractive index

It is a method to measure "refractive index" which is one of the physical property constants of a substance. "Refractive index" has a very high correlation with the density, specific gravity, viscosity, concentration of solution, etc. of a substance. Using this correlation, the refractive index of the sampling liquid flowing in the pipe is continuously measured by the source sensor placed in the middle.

