

For TAC film saponification process
Caustic soda (potassium hydroxide)
concentration control device

CCC METER V

Used in the production of polarizing films
(PVA film saponification process),
Automatic measurement and
feed of caustic soda (potassium hydroxide)

【Measurement
concentration range】
NaOH 0~50.0%
(KOH 0~50.0%)

【Measurement method】
Refractive index

【Measurement
compatible temperature】
5~90°C



 **TOKAI SENKO**

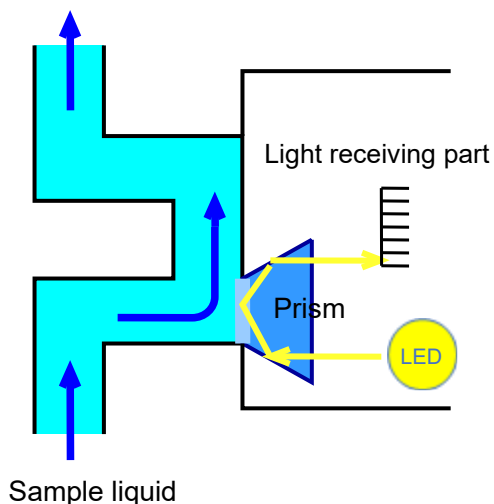
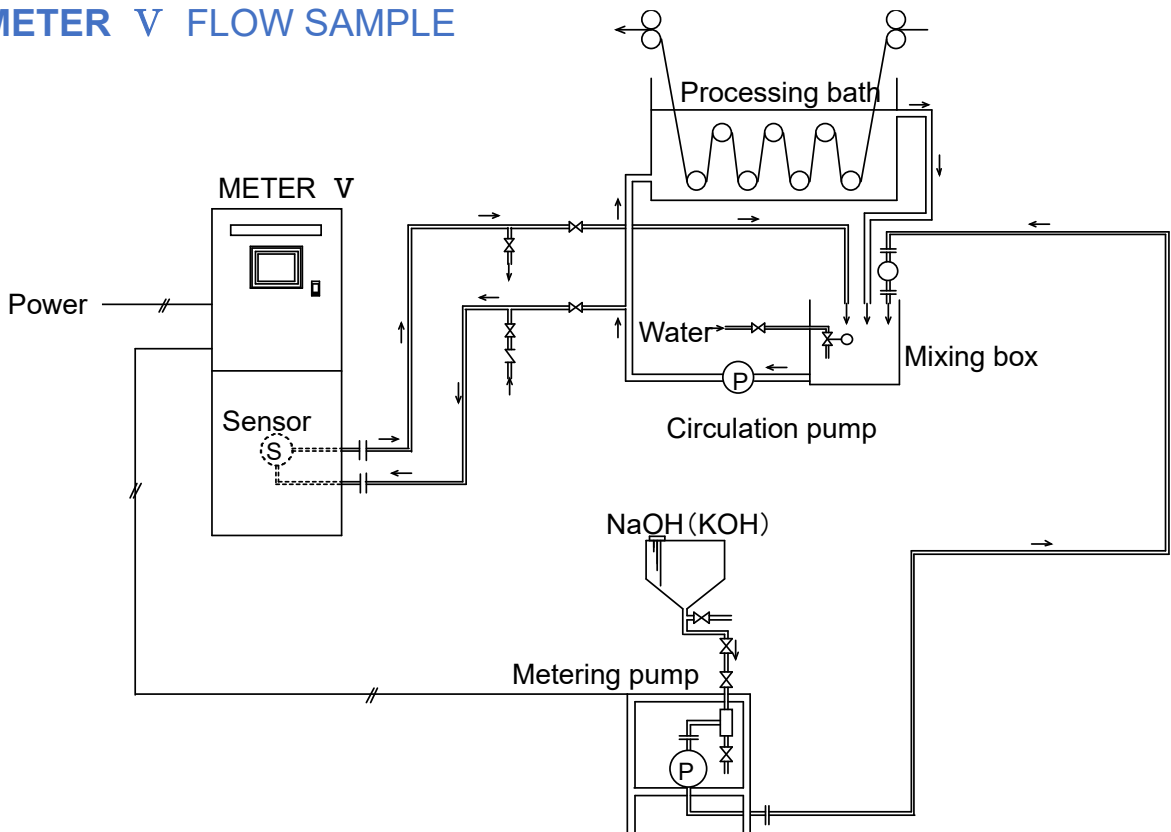
1-2 NESHINDEN, NISHIBIWAJIMA-CHO,
KIYOSU ACHI, JAPAN

TEL +81- 52-503-1499

FAX +81- 52-503-1499

E-mail : setubi@tokai-senko.co.jp

METER V FLOW SAMPLE



【Sensor Image】

【Measurement principle】

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 a sensor placed in the middle.

The responsiveness to changes in flow rate makes the measurement perfectly follow changes in concentration. The measuring part is always in contact with the fluid and is kept clean.

Furthermore, when converting the measurement result of the sensor to the concentration, the temperature is automatically corrected and the correct concentration is always displayed, which is a method that covers all the drawbacks of the conventional method such as the specific gravity method.