

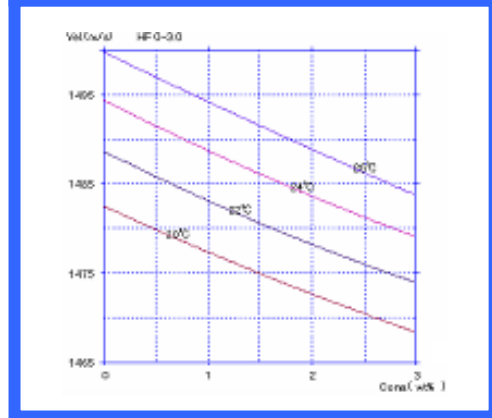


Chemical Concentration Monitor For Chemical Dispense Systems FUD-1 Model-1006



Ultrasonic Method

Graph of HF 0-3wt% 20-30°C



Major concerns with CDS

- Time Consuming Lab. Analysis
- C.O.C. of Lab. Analysis
- Conc. control at mixing process
- Monitoring Conc. in a storage tank
- In-Situ Monitoring

Advantages of FUD-1 Model-1006

- Available for wide variety of chemicals (HF, TMAH, KOH, NH₄OH, etc)
- Save time & C.O.C.
- Almost Free Maintenance
- Easy Operation
- High Accuracy and Stability
- Flow-Cell Type Transducer
- No Contamination [Material PFA]
- Alarm System [DC4-20mA & RS232C]
- World Widely Used Model



Fuji Ultrasonic Engineering Co., Ltd.
www.fuji-us.co.jp

Basic Principle

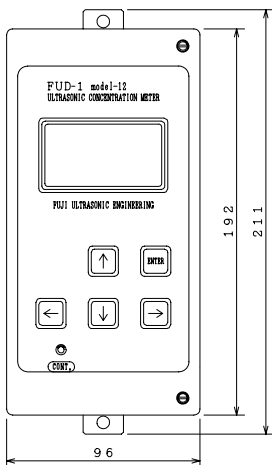
The ultrasonic velocity in a liquid has a characteristic that it is determined by the concentration and the temperature of the liquid. It measures the temperature and the ultrasonic velocity of the liquid accurately, then, calculates the concentration of the liquid from the temperature and the ultrasonic velocity measured by the calibration curves recorded in the Data ROM. In addition, the measurements for different kinds of liquids or different measurement range are available by storing relevant Data ROM for each situation.

Specifications

Principle	Ultrasonic velocity, and Temperature
Display	LCD (Conc., Temp., and Velocity / Various parameters)
Output	Analog DC4-20mA (adjustable depended on a conc. figures) Digital RS232C (Conc., Temp., Velocity, & Error code) Alarms High, Highest, Low, Lowest, & Error
Power	AC100-240V 50/60Hz or DC24V (Model-12C)
Construction	Panel Mount Type (DIN standard type)
Environment	Temp. : 0-50 degreeC RH : less than 85% (No dew condensation)
Function	Output setting, Alarm-output setting, Average times settings, Offset/Gain setting Self-diagnosis-check, Fail safe mode, & Auto error cancellation mode
Cable	6 m
Channel	Max. 10 ch

Dimensions

Transmitter



Transducer

