

Ultrasonic Viscosity Meter [In-line type]

FUV-1 series

FUV-1 Model-104



FUV-1 Model-204 (explosion proof model)



Advantages

- Ultrasonic torsion mode vibration ▶ Real time measurement with high accuracy
- No moving part design ▶ No requirement for periodical parts replacement
- Simple sensor design ▶ Trouble less cleaning
- Easy installation ▶ No position limitation & adjustments required at installation
- Real time output ▶ Available for in-line process control

Measurement experiences

■ Adhesive ■ Oil ■ Cosmetics ■ Resist ■ Ink ■ Coating material
■ Latex ■ Polymer etc

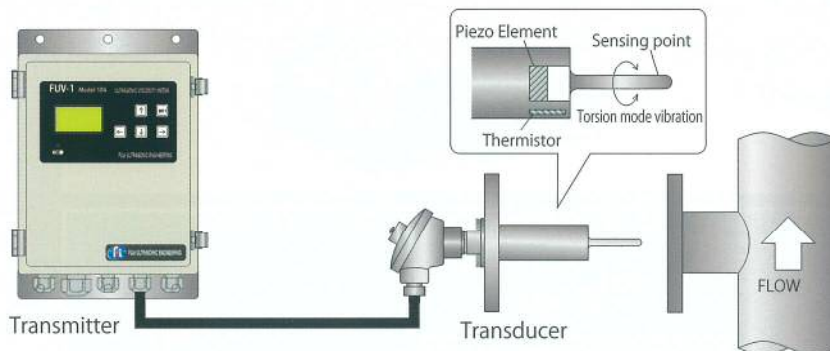


FUJI ULTRASONIC ENGINEERING CO.,LTD.

Specifications

Product	FUV-1 Model-104 / FUV-1 Model-204 (explosion proof model)
Principle	Ultrasonic torsion mode vibration
Display	LCD (Viscosity, temperature and parameters)
Temperature	0-100Celsius
Environment	Transmitter/0-50Celsius RH less than 80% (No dew condition) Transducer/0-100Celsius
Output	Analog DC4-20mA (Adjustable) Digital RS232C Alarm High & Low
Power requirement	AC100-240V 50/60Hz 30VA
Measurement ranges	Low viscosity / 0-100mPa.S Middle viscosity / 0-1,000mPa.S High viscosity / 0-10,000mPa.S
Accuracy	+/-2%FS
Explosion proof spec.	Transducer ExIICT4 Repeater ExIIBT4

Measurement principle



The transmitter provides torsion mode vibration of fixed frequency to the transducer. To maintain the fixed frequency, under forced condition by flow registration, the transmitter has to control electric current for the drive unit. Then, it measures flow viscosity with electric current change.

Transmitter dimension



Transducer dimension



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