Specifications

Model name		FUD-1 Model-13 FUD-1 Model-23 (explosion proof model)
Measurement parameters		Ultrasonic propagation speed · temperature
Display		LCD (Conc. Temp. Velocity/Various parameters)
Output		Analog DC4 to 20mA (adjustable for conc. value)
		Digital RS232C (Conc. Temp. Velocity Error code)
		Alarm High & Low limit Error
Power		AC100 to 240V 50/60Hz 30VA
Transmitter		Panel mount type (DIN size) Wall mount type (Rain proof case available)
Environment		0 to 50 Celsius RH85% or less
Fluid temperature		0 to 100 Celsius (Optional -10 to 160 Celsius : 100 Celsius span)
Function		Output setting, Alarm output setting, Average setting
		Offset and Gain setting, Self-diagnosis check
		Auto error cancelation setting, Fail safe mode setting
Option		RS485 output (Alternative choice with RS232C)
		Temperature output (DC4 to 20mA)
Channel		Maximum 10 Ch
Cable		10m (standard) Repeater required for over 10m Max, 300m
Explosion proof	Repeater	Exd(ia)IIBT4
	Transducer	Ex(ia)IICT4
Transducer material		SUS316(L) SUS304(L) PFA coating Hastelloy Titanium
		Nickel Tantalum PFA PTFE PVC PVDF etc
		1

* Specification may change without notice

Transmitter

Panel mount type Weight 2kg approx.





Flange JIS 10K 50A Weight 3.5kg approx.

120circumference The above flange size refers to JIS V2210 10K 50A FF.

Transducer

Element 1





*The other sizes are available.



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FUJI ULTRASONIC ENGINEERING CO.,LTD.

FUD-1 Model-13

ASONIC CONCENTRATION METER

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WHY ULTRASONIC?

Ultrasonic principle is available for almost every kind of liquid. Moreover, it does not require any periodical calibration because of no long time degradation of piezoelectric element.



measurement This product can measure concentration with

outstanding tight accuracy and long term stability since the principle of this product is independent of color (transparency), flow rate, and din (sound noise).



This product does not require any periodical parts replacement due to no moving parts that can wear out or age. In addition, it is possible to check the product condition with water with its self-diagnostic function.



Superior customer service 40 based on over 40 years sales experience

Together with our worldwide sales representatives who pride themselves in superior customer support, we always strive for complete customer's satisfaction

Measurement principle

The ultrasonic velocity is determined by density, bulk module & temperature of the liquid. This product can measure velocity & temperature of the liquid accurately, and can calculate the concentration with the characteristic curve of the liquid.





Binary type Ultrasonic Concentration Meter

We strive to be flexible, reliable & honest for the customer needs based on our over 40 years sales experience. Available for variety applications such as acid, alkali, and organic fluids with minimum effort for installation and operation

Flexible choice of transmitter & transducer for adapting to the specific application

FUD-1 Model-13



Transducer : SUS316/JIS10K25A



Transducer : PFA coating/JIS10K50A



FUD-1 Model-23 Explosion proof

Transmitter : Wall mount type Transducer : PFA/JIS10K50A Explosion proof repeater

Complete system : No struggle with system integration

System configuration

FUD-1 Model-13



Repeater & extension cable are required for over 10m distance





Explosion proof repeater & extension cable are required for explosion proof model

Advantages

This product enables real time controlling system easily with DCS as well as monitoring system with a standard PC.



Various transducer materials are available for protection against chemical corrosion. Besides, flange type is selective among JIS, ANSI, DIN e.g. *SUS316(L) *SUS304(L) *PFA coating *Hastellov *Titanium *Tantalum *PFA *PVC *PVDF

Applications

Chemical plant: H2SO4, HF, TMAH, HNO3, NH4OH etc. Steel plate plant: Coolant oil. Oil remover etc. Synthetic fiber plant: Primary material, Oiling agent etc. Food/Beverage plant: Sugar (BX), Ingredients, etc. Other industries: Cleaner, Etchant, etc.

