

## Providing reliable turbidity measurements in Water Treatment Plants since 1959

No.1 Process analyzer supplier to Japanese market. (\*)

### TB820D Right Angle Scattered Light Turbidity Detector

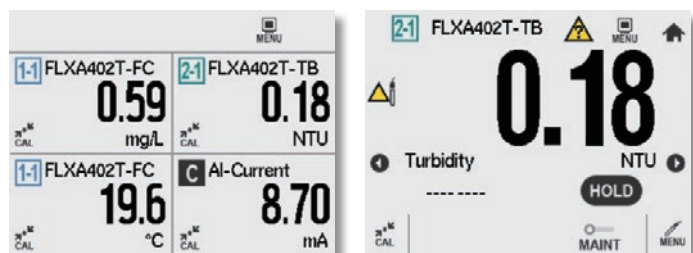


- Reliable right angle Scattered light detection method
- Longer light source life time and eco-friendly by LED
- Easy maintenance
  - Easy to change parts structure
  - Easy to clean measurement cell structure
- Advanced diagnostics functions
  - LED wellness check, desiccant lifetime check
  - Maintenance prediction
- Multi sensor input
- Various communication
  - 4-20 mA Analog output
  - Modbus TCP/IP and Modbus RTU

(\*) Based on a Yokogawa survey in 2019

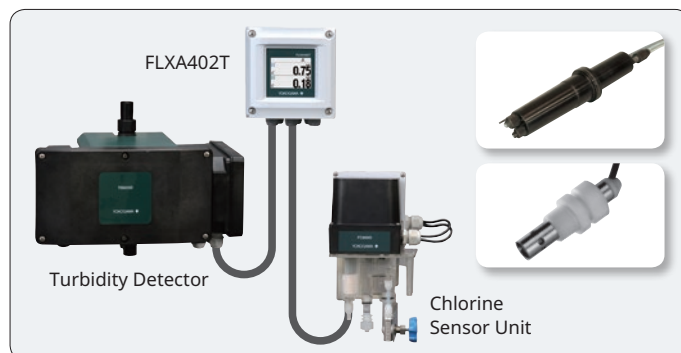
#### Excellent visibility and operability analyzer

- Color touch screen realizes intuitive operation
- Short cut menu for regular maintenance
- Display error details and no need to open instruction manual
- 8 languages are available (English, German, French, Chinese, Korean, Spanish, Portuguese, Japanese)




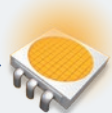
#### Multi sensor input

Not only Turbidity Detector but also Chlorine Sensor Unit, pH sensor and conductivity sensor are connectable to one transmitter

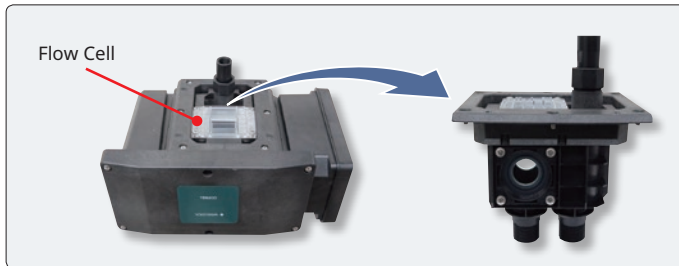


## Easy maintenance Turbidity analyzer

- Long light source life time by LED
- Plug and play lamp changes. No adjustment necessary.

Lamp maintenance Recommended interval : Yearly		→		New lamp (LED) maintenance Recommended interval : 3 Years
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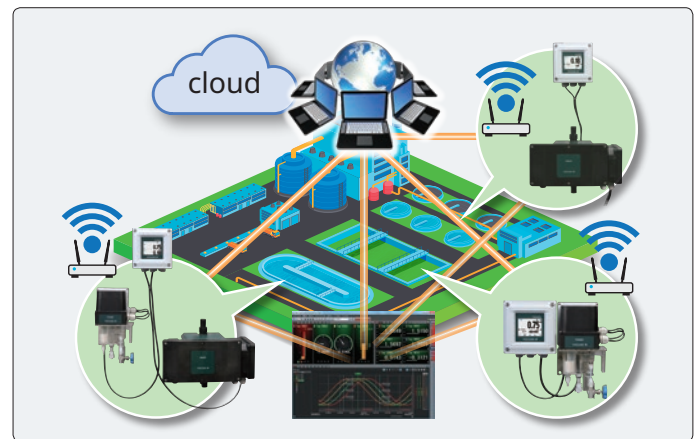
### Easy to clean measurement cell structure



## SENCOM 4.0 platform for Turbidity Analyzer

### Remote operation made simple

SENCOM 4.0 platform empowers you. Digital technology gives you insight into field based problems.



### TB820D

#### Specification

Measuring method	Right angle scattered light method	
Measuring Range (Turbidity standard: Formazin)	0-0.2 to 0-500 NTU (Light source 660 nm) 0-0.2 to 0-700 FNU (Light source 860 nm/ Compliant standard: ISO7027)	
Sample Conditions	Temperature	0 to 50°C
	Flow Rate	0.05 to 20 L/min
	Pressure	500 kPa max
Power supply	100 to 240 VAC, 50/60 Hz	
Digital Communication	Modbus TCP/IP, Modbus RTU	
Installation	Indoor (Outdoor use requires protection against rain. Direct sunlight must be avoided.)	
Cleaning system	Ultrasonic cleaning, automatic wash	

#### Performance

Linearity	0-40 NTU: $\pm 2\%$ of reading or $\pm 0.01$ NTU whichever is greater over 40 NTU to 100 NTU: $\pm 5\%$ of reading over 100 NTU: $\pm 10\%$ of reading
Repeatability	0-100 NTU range: $\pm 1\%$ of reading or $\pm 0.002$ NTU whichever is greater over 100 NTU: $\pm 2\%$ of reading when Check tool is used

### FLXA402T

Sensor input	Up to 2 sensors from Turbidity Detector, Chlorine Sensor Unit, pH sensor and Conductivity sensor
Analog Output	4-20 mA DC (2 or 4)
Contact Output	4
Digital Communication	Modbus RTU or Modbus TCP/IP
Diagnostics functions	Lamp condition, Inside dryness monitoring by temperature and humidity sensor
Display	QVGA color touch LCD 8 languages (English, German, French, Chinese, Korean, Spanish, Portuguese, Japanese)

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