

## SH-FT200 Ultra Low Turbidity measurement device

### ● Overview

SH-FT200 ultra-low turbidity on-line measurement device adopts 90° light scattering color method, unique photoelectric receiving structure, as well as temperature and light compensation, which greatly improves the precision and accuracy of turbidity detection, RS485 interface and standard Modbus protocol.



### ● Product features

- 90° light scattering method, optical and digital filtering to eliminate the effects of stray light
- Miniaturized design, small size, low water consumption, low daily running costs
- Automatic recognition of missing water sample, fault self-diagnosis
- RS485 communication interface, standard Modbus protocol for easy integration.

### ● Technical specifications

|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| Working principle     | 90° light scattering color method                                                        |
| Mode of operation     | Continuous                                                                               |
| Meas. wavelength      | 660 nm                                                                                   |
| Measurement range     | (0~1/2/20/100) NTU                                                                       |
| Accuracy              | $\leq \pm 2\%$ or $\pm 0.015\text{NTU}$ , whichever is greater                           |
| Repeatability         | $\leq 1\%$                                                                               |
| Zero drift (24h)      | $\pm 0.015\text{ NTU}$                                                                   |
| Resolution            | 0.001 NTU                                                                                |
| Comm. Interface       | RS485, standard Modbus protocol, baud rate 9600                                          |
| Dimensions            | (233*180*123) mm                                                                         |
| Materials             | Composite material                                                                       |
| Operating voltage     | 24 Vdc (19~30 voltage range)                                                             |
| Power absorption      | 1.5~12 W                                                                                 |
| Calibration period    | 3 months                                                                                 |
| Operating environment | Temperature: (0~50) °C;<br>Inlet pressure: < 3 bar (0.3 MPa)<br>Flow rate: < 300 mL/min. |

### ● Product applications

- Tap water, secondary water supply, membrane filtered water