

Turbidity

HU-200TB-IM

(4-Wire Transmitter)



HU-200TB-W

(4-Wire Transmitter)



HU-200TB-IM Specifications

Measuring method	90-degree transmission-scattering method
Measuring range	Turbidity Formazin: 0 to 4000 NTU Kaolin: 0 to 2000 degrees (Display range: 2001 to 4000 degrees) SS Kaolin: 0 to 2000 mg/L (Display range: 2001 to 4000 mg/L)
Transmission output	Two points 4 to 20 mA DC input/output isolated type Maximum load resistance 900 Ω
Contact output	Six points Output type: No-voltage contact output Relay contact, SPST Contact capability R1, R2, R3: Selectable from upper limit alarm, lower limit alarm, transmission output Hold, and cleaning output Setting range: Within the measurement range of turbidity or absorbance Delay time: 0 to 600 s FAIL: You can use the NO and NC relay contact. Error alarms for values outside the measurement range, self-checks, and calibration errors can be set Delay time: 0 to 600 s RNG1, RNG2: Status output of the transmission output range
Contact input	Four points Contact type: No-voltage a contact for open collector Contact function EXT1: Transmission output hold EXT2: Cleaning operation external input EXT3 EXT4: Selection from four ranges by 2 bits input
Communication function	RS-485 Two wire type, the power source of the communication is isolated from the power of measurement circuit. (The power source of transmission and communication are not isolated)
Ambient temperature	-20 to 55°C
Self-diagnosis	Sensor check error, Transmitter error
Power supply	100 to 240 V AC 50/60 Hz 36 VA (max.)
Structure	Outdoor installation type: IP65 Protection class Installation method: 50 A pole-mounted or wall-mounted Material of case: Aluminium alloy (coated with epoxy modified melamine resin) Material of mounting brackets: SUS304
Weight	Approx. 4.5 kg
Regulatory certification	CE marking, FCC rules

HU-200TB-W Specifications

Measuring method	90-degree transmission-scattering method
Measuring range	Kaolin 0 to 1000 degrees (Display range: 0 to 1100 degrees) or 0 to 1000 mg/L Formazin 0 to 2000 degrees (Display range: 0 to 2200 degrees) PSL 0 to 100 degrees (Display range: 0 to 110 degrees)
Transmission output	Two points 4 to 20 mA DC input/output isolated type Maximum load resistance 900 Ω
Transmission output range	Free range
Contact output	Four points Output type: No-voltage contact output Relay contact, SPST Contact capability R1, R2, R3: Selectable from upper limit alarm, lower limit alarm, transmission output Hold, and cleaning output. FAIL: Error alarm RNG1, RNG2: Range signal by 2 bits binary output
Contact input	Four points Contact type: No-voltage a contact for open collector Contact function EXT1 EXT2: Can be selected from auto zero cal directives or transmission hold EXT3 EXT4: Selection from four ranges by 2 bits input
Communication function	RS-485 Two wire input/output isolated type (not isolated from transmission output)
Ambient temperature	-20 to 55°C
Self-diagnosis	Sensor check error, Converter error
Power supply	100 to 240 V AC 50/60 Hz 35 VA (max.)
Structure	Outdoor installation type: IP65 Protection class Installation method: 50 A pole-mounted or wall-mounted Material of case: Aluminium alloy (coated with epoxy modified melamine resin) Material of mounting brackets: SUS304
Weight	Approx. 4.5 kg
Regulatory certification	CE marking, FCC rules

Sensor

Specifications

Model	SS-150
Measuring method	Light scattering/transmission method or transmission method
Light source	Infrared LED 860 nm
Detector	Silicon photo diode
Automatic cleaner	Rotary wiper
Measured liquid temperature	0 to 45°C (Without freezing)
Measured liquid pressure	0 to 0.1 MPa
Material of wetted Part	PFA, POM, FKM, M, SUS316, EPDM, PVC,
Cable length	Provided standard cable: 10 m, maximum extension distance: 50 m
Power supply	24 V DC 6 W supplied from HU-200TB-IM Transmitter
Weight	Approx. 1.0 kg (excluding cables)



Specifications

Model	SS-120-W
Measuring method	90-degree transmission-scattering method
Light source	LED 860 nm
Detector	Silicon photo diode
Automatic cleaner	Wiper (Option)
Measured liquid temperature	5 to 45°C (without freezing)
Measured liquid pressure	0 to 0.3 MPa
Material of wetted Part	PVC SUS316 FKM silicone rubber hard glass EPDM
Cable length	Standard attachment cable: 5 m
Installation	Screwing in bore size: Rc3/4
Power supply	12 V DC supplied from HU-200TB Transmitter
Weight	Mainframe: approx. 3.5 kg Cleaner: 2.5 kg



Caution: The selection of equipment will differ based on various conditions, including the installation site, usage environment, measurement samples, and any special characteristics. Contact your sales representative for details.