General Specifications

Model TB750G
Right Angle Scattered Light Turbidimeter
GS 12E01A06-01E

■ General

There are increasing demands for good quality water for both industrial-use and drinking water applications because of rapid industrial development and consumer demands for better quality of life. A large amount of the waste water from both applications has been drained or discharged into rivers, causing pollution to worsen year after year. This has caused serious social problems. Therefore, turbidimeters, conventionally used for the operation and control of water purification plants, are nowadays being required to measure the amount of matter suspended in various sorts of industrial waste water and to measure the turbidity of chemical processes.

Since their sales began in 1959, Yokogawa’s turbidimeters have been continuously developed and improved using various measurement principles suited for various applications. With its many achievements, Yokogawa has earned its customers’ confidence.

Developed based on years of experience and applications in process fields, the TB750G Turbidity Measuring System using right angle light scattering method provides highly reliable measurement and improved maintainability which improve upon what previous models could offer.

■ Features

- Highly reliable measurement with excellent linearity and repeatability
  - Linearity: ±2% of reading or ±0.01 NTU, whichever is greater
  - Repeatability: ±1% of reading or ±0.002 NTU, whichever is greater
  - Display resolution: 0.001 NTU
- Easy-to-clean cell
- Compact, lightweight converter and detector
- User configurable measuring range
  - Measuring range: 0-0.2 NTU to 0-100 NTU
  - Measuring range switching (2 or 3 ranges)
- Enhanced self-diagnostic function as standard
  - Light source failure, input element failure, calibration failure, various circuit failures, etc.
- Detector structure to remove sudden reading change caused by bubbles
- A wide range of measurement conditions
  - Low flow rate: 0.05 to 20 l/min
  - High pressure: 500 kPa maximum
  - Temperature: 0 to 50°C
- Detector can be connected for in-line analysis
  - 2 analog outputs, 3 relay contact outputs, and 1 serial communication
- Many options available
  - Ultrasonic transducer and oscillator for ultrasonic cleaning
  - Various head tanks to accommodate application requirements
- Measurement method is based on US EPA 180.1.

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Standard Specifications

1. TB750G Right Angle Scattered Light Turbidimeter

Measurement: Turbidity of finished water and water used in general processes
Measurement method: Right angle light scattering method
Measuring range: 0.000 to 100.0 NTU
Display: 4 digit LCD (6 digits in message area), negative value indication enabled/disabled
Unit: NTU
Resolution: 0.001 NTU
Turbidity standard: Formazin

Contact output:

- Analog output:
  - Output signal: Analog output 1: 4 to 20 mA DC, isolated
  - Analog output 2: 4 to 20 mA DC or 0 to 20 mA DC selectable, isolated (Both analog outputs are not isolated.)
  - Load resistance: 550Ω max.
  - Output range: Configurable within the measuring range
  - Minimum range: 0 to 0.2 NTU
  - Maximum range: 0 to 100 NTU
  - Minimum span: 20% or more of upper limit of the range or 0.2 NTU, whichever is greater.
  - Note: When auto range switching is selected, lower limit of the range is 0 NTU.

Range switching:
- Enabled/disabled in either analog output 1 or 2. Not available in both outputs.
  - Manual (local) range/auto range/remote 2-range/remote 3-range switching selectable.

Output signal in maintenance:
- Output hold enabled/disabled

Hold output: Last measured value or fixed value
- (between 2.0 and 22.0 mA for 4 to 20 mA DC output; between 0.0 and 22.0 mA for 0 to 20 mA DC output) selectable

Output signal in FAIL: Output hold enabled/disabled

Hold output: Last measured value or fixed value
- (between 2.0 and 22.0 mA for 4 to 20 mA DC output; between 0.0 and 22.0 mA for 0 to 20 mA DC output) selectable

Negative value indication: Enabled/disabled

Serial communication:
- Number of outputs: 1
- Communication signal: RS-422 or RS-232C, isolated
- Command: Requests of turbidity measurement, error information, and output range switching
- Communication data: Turbidity, status (measurement/maintenance/calibration, FAIL, high/low alarm, output range), error information
- Communication method: Start-stop synchronization, non-procedural
- Communication setting: 9600 bps, parity (even), stop bit 1 bit, data length 8 bit
- Distance:
  - RS-422: 1000 m max.
  - RS-232C: 10 m max.
- Cable:
  - RS-422: Twisted pair cable with shield (AWG 20 to 16)
  - RS-232C: Cable with shield

Contact output:
- Type: Relay contact output

Number of contacts: 3
- Action: On/Off
- Function:
  - S1, S2: High/low alarm or in-maintenance selectable
  - FAIL: Failure
- Rating:
  - 250 VAC, 2A, 125 VA max. (resistance load) or 30 VDC, 3A, 60 W max. (resistance load), Form C (NC/NO/COM, 3 terminals)

Contact status:

<table>
<thead>
<tr>
<th>Status</th>
<th>Contact S1, S2</th>
<th>Contact FAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>In action</td>
<td>ON</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>Open</td>
<td>Open</td>
</tr>
<tr>
<td></td>
<td>Closed</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Open</td>
</tr>
<tr>
<td>Power OFF</td>
<td>Off</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>Open</td>
<td>Closed</td>
</tr>
<tr>
<td></td>
<td>Closed</td>
<td>Open</td>
</tr>
</tbody>
</table>

Contact input:
- Type: Voltage-free contact input
- Number of contacts: 2
- Function: Remote range switching
  - On resistance: Input resistance 200Ω or less
  - Off resistance: Input resistance 100kΩ or greater

Contact status:
- Remote 2-range switching
- Type: Relay contact output
- Number of contacts: 3
- Action: On/Off
- Rating: 250 V AC, 2 A, 125 VA max. (resistance load) or 30 V DC, 3 A, 60 W max. (resistance load)

Contact status:
- Contact when range A is selected:
  - IN1-COM: Open
  - Range A: Closed

Remote 3-range switching
- Type: Relay contact output
- Number of contacts: 3
- Action: On/Off
- Rating: 250 V AC, 2 A, 125 VA max. (resistance load) or 30 V DC, 3 A, 60 W max. (resistance load)

Contact status:
- Contact when range A is selected:
  - RANGE A-COM: Open
  - Range A: Closed

Calibration:
- Zero calibration: Zero water (filtered water with zero turbidity)
- Span calibration: Sensitivity calibration using check block or turbidity standard solutions
- 2-point calibration: Turbidity standard solutions
- Grab sample calibration: Zero point and sensitivity correction using grab sample
- Self-diagnostics: Light source failure, input element failure, calibration failure, AD circuit failure, memory failure, etc.
- Installation location: Indoor (Weather protection is required for outdoor installation)
- Ambient temperature: -5 to 50°C (Sample and tap water may need protection against freezing)
- Ambient humidity: 5 to 95%RH (non-condensing)
- Storage temperature: -30 to 70°C
- Sample water conditions:
  - Flow rate: 0.05 to 20 l/min
  - Temperature: 0 to 50°C
Pressure: 500 kPa max.
Mounting: Pipe, wall, rack or panel mounting
Piping connection (detector):
Sample water inlet: Rc1/2 or 1/2NPT (optional)
Sample water outlet: Rc1/2 or 1/2NPT (optional)
Drain port: Rc1 or 1NPT (optional)
Cable inlet port (detector and converter):
DIN Pg 13.5 cable gland
Cable OD: 6 to 12 mm
Dimensions:
Detector: 378W x 174H x 265D mm
Converter: 144W x 144H x 142D mm
Material (main):
Detector: Aluminum alloy casting, modified PPE resin
Wetted parts: Modified PPE resin, glass, fluoric rubber, silicon rubber, SUS 316
Converter: Aluminum alloy casting, Polycarbonate resin
Construction: JIS C 0920, IP65 Water-tight
Finish:
Detector, converter:
Baked polyurethane resin coating (standard)
Baked epoxy resin coating (optional)
Color:
Detector: Spring Black (Munsell 3.3PB2.5/0.5 or equivalent), Mint green (Munsell 5.6BG3.2/9 or equivalent)
Converter: Silver Gray (Munsell 3.2PB7.4/1.2 or equivalent)
Weight:
Detector: Approx. 5.8 kg
Converter: Approx. 1.5 kg
Power supply: 100 to 240 VAC -15%/+10%, 50/60 Hz
Grounding: Class D grounding
Grounding resistance of 100Ω or less
Power consumption:
Converter + Detector: 50 VA max.

Regulatory Compliance
EMC Regulatory Arrangement in Australia and New Zealand
Korea Electromagnetic Conformity Standard Class A

Characteristics
Standard performance
(under normal operating conditions)
Repeatability: ±1% of reading or ±0.002 NTU, whichever is greater
Linearity: ±2% of reading or ±0.01 NTU, whichever is greater
Response time: Within 2 minutes (90% response, sample water flow rate 3 l/min)

Optional Specifications
Head tank:
Simple head tank
Application: Turbidity is 10 NTU or less. To remove relatively large air bubbles.
Sample water conditions: Flow rate: 1 to 10 l/min Turbidity: 2 to 10 NTU
Pressurized head tank for low turbidity
Application: Turbidity is 2 NTU or less. To remove air bubbles and to prevent them from occurring.
Sample water conditions: Flow rate: 0.05 to 10 l/min Turbidity: 2 NTU or less Pressure: 20 to 500 kPa
Transducer for ultrasonic cleaning (TUS400G Ultrasonic Oscillator should be purchased separately.)

Zero turbidity filter
When measuring range is 2.0 NTU or greater: 1 µm
When measuring range is below 2.0 NTU:
1 µm + 0.2 µm

2. TUS400G Ultrasonic Oscillator
Combination device: Turbidity converter (TB750G)
Special cable (3-conductor shielded cable)
Cleaning method: Continuous ultrasonic emission
(Frequency sweep method)
Oscillation frequency: Approx. 170 to 200 kHz (sweeping frequency: Approx. 160 to 250 kHz)
Output voltage: Approx. 40 to 80 V
Power supply: 100/110/150/200/220/240 V AC ±10%, 50/60 Hz
Power consumption: Approx. 30 VA
Insulation resistance:
Power supply-G: 100 MΩ or more / 500 V DC
Output terminals-G: 100 MΩ or more / 500 V DC
Withstand voltage:
Power supply-G: 1000/1500 V AC for 1 min.
Output terminals-C: 1000/1500 V AC for 1 min.
Ambient temperature: -10 to 50°C (hood may be fitted as option)
Storage temperature: -25 to 70°C
Construction: JIS C 0920 Water-tight (NEMA 4 equivalent waterproof construction)
Material: Case: Aluminum alloy casting Window: Polycarbonate
Finish: Baked polyurethane resin coating (optional)
Baked epoxy resin coating (optional)
Color:
Case: Frosty white (Munsell 2.5Y8.4/1.2 or equivalent)
Cover: Deep sea-moss green (Munsell 0.6G3.1/2.9 or equivalent)
Mounting: Pipe mounting, wall or rack mounting or panel mounting
Mounting material: Stainless steel
Cable inlet port: Ø22.7 hole x 2
Cable: PG16 watertight plastic gland
Cable/terminal: For 7 to 12 mm, M4 screw
Conduit adapter: Power supply side (optional)
Material: Polycarbonate resin
Connection: G1/2 or 1/2NPT
Weight:
Body: Approx. 2.0 kg
Mounting: Approx. 0.7 kg
Dimension: 162W x 85H x 265D mm
Note: 1. Output of ultrasonic oscillator changes with power supply voltage. The output is lower when the voltage is lower.
2. Output of ultrasonic oscillator changes with connected cable. The output is lower when the length of the cable is longer.
Noise filter assembly: (for TUS400G-NN-RC, -KC)
Ambient temperature: -10 to 50°C (no dew condensation allowed)
Strage temperature: -25 to 70°C
Construction: JIS C 0920 Watertight (IP53)

Regulatory Compliance
EMC Regulatory Arrangement in Australia and New Zealand
Korea Electromagnetic Conformity Standard Class A
### Model and Codes

**1. TB750G Right Angle Scattered Light Turbidimeter**

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix Code</th>
<th>Option Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB750G</td>
<td></td>
<td>-ST</td>
<td>Right angle scattered light turbidimeter</td>
</tr>
<tr>
<td>Turbidity standard and measuring range</td>
<td>NTU</td>
<td></td>
<td>Formazin, 0-0.2 NTU to 0-100 NTU</td>
</tr>
</tbody>
</table>

**Option Code**

- **-N1**: 4 to 20 mA DC, RS-422
- **-N2**: 4 to 20 mA DC, RS-232C

**Sampling system**

- **-NN**: Without sampling system

<table>
<thead>
<tr>
<th>Sampling system material and mounting</th>
<th>NN</th>
<th>Without sampling system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable length between converter and detector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-1</td>
<td>1 m</td>
<td></td>
</tr>
<tr>
<td>-2</td>
<td>2 m</td>
<td></td>
</tr>
<tr>
<td>-3</td>
<td>3 m</td>
<td></td>
</tr>
</tbody>
</table>

**Option**

- **-N1**: General
- **-N2**: Australia, for Oceania areas

**Supply voltage**

- **-1**: 100 V AC, 50/60 Hz
- **-2**: 110 V AC, 50/60 Hz
- **-3**: 220 V AC, 50/60 Hz
- **-4**: 230 V AC, 50/60 Hz
- **-5**: 115 V AC, 50/60 Hz
- **-6**: 240 V AC, 50/60 Hz

**Ultrasonic oscillator**

- **-N1**: General
- **-N2**: Australia, for Oceania areas

**Supply voltage**

- **-1**: 100 V AC, 50/60 Hz
- **-2**: 110 V AC, 50/60 Hz
- **-3**: 220 V AC, 50/60 Hz
- **-4**: 240 V AC, 50/60 Hz

**Ultrasonic vibrator connecting cable**

- **-L1**: 1 m (for Model TB700G or TB750G)
- **-L2**: 2 m (for Model TB700G or TB750G)
- **-L3**: 3 m (for Model TB700G or TB750G)
- **-L4**: 4 m (for Model TB700G or TB750G)
- **-L5**: 5 m (for Model 8562)
- **-L6**: 6 m (for Model 8562)

**Language for directions**

- **-J**: Japanese (Directions indicated on product: Some are written in Japanese and in English.)
- **-E**: English (Directions indicated on product: Some are written in Japanese and in English.)

**Option**

- **PS**: Pipe mounting (SUS)
- **W**: Wall mounting (SUS)
- **PA**: Panel mounting (SUS)
- **SCT**: Stainless steel tag plate

**Conduit adapter**

- **AFTG**: ANSI 1/2NPT *3
- **ANSI**: SUS 1/2NPT *3

**Head tank**

- **D1**: Pressurized head tank for low turbidity (recommended for 2.0 NTU or less)
- **D2**: Simple head tank

**Tag plate**

- **SCT**: Stainless steel tag plate

**Special painting**

- **X1**: Epoxy painting *4

**Ultrasonic transducer**

- **US**: Transducer for ultrasonic cleaning *5

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**2. TUS400G Ultrasonic Oscillator**

<table>
<thead>
<tr>
<th>Model</th>
<th>Suffix Code</th>
<th>Option Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUS400G</td>
<td></td>
<td>-NN</td>
<td>Ultrasonic oscillator for turbidimeter</td>
</tr>
</tbody>
</table>

**Application**

- **-N**: Always -NN

**Supply voltage**

- **-1**: 100 V AC, 50/60 Hz
- **-2**: 110 V AC, 50/60 Hz
- **-3**: 220 V AC, 50/60 Hz
- **-4**: 240 V AC, 50/60 Hz

**Ultrasonic vibrator connecting cable**

- **-N**: None
- **-1**: 1 m (for Model TB700G or TB750G)
- **-2**: 2 m (for Model TB700G or TB750G)
- **-3**: 3 m (for Model TB700G or TB750G)
- **-4**: 4 m (for Model TB700G or TB750G)
- **-5**: 5 m (for Model 8562)
- **-6**: 6 m (for Model 8562)

**Language for directions**

- **-J**: Japanese (Directions indicated on product: Some are written both in Japanese and in English.)
- **-E**: English (Directions indicated on product: Some are written in Japanese and in English.)

**Option**

- **PS**: Pipe mounting (SUS)
- **W**: Wall mounting (SUS)
- **PA**: Panel mounting (SUS)
- **SCT**: Stainless steel tag plate

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**3. Zero Turbidity Filter Assembly**

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter Assembly, 1 μm</td>
<td>K9411UA</td>
</tr>
<tr>
<td>Filter Assembly, 0.2 μm</td>
<td>K9726EF</td>
</tr>
</tbody>
</table>

**4. Consumables**

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter Element, 1 μm</td>
<td>K9008ZD</td>
</tr>
<tr>
<td>Filter Element, 0.2 μm</td>
<td>K9726EH</td>
</tr>
<tr>
<td>Lamp Assembly</td>
<td>K9657PW</td>
</tr>
<tr>
<td>Fuse (3.15 A)</td>
<td>A1113EF</td>
</tr>
<tr>
<td>Desiccant (4 pcs)</td>
<td>K9657RJ</td>
</tr>
</tbody>
</table>

---

**5. Head Tank**

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressurized head tank</td>
<td>K9725WA</td>
<td>Same as option code /D1</td>
</tr>
<tr>
<td>Simple head tank</td>
<td>K9658YA</td>
<td>Same as option code /D2</td>
</tr>
</tbody>
</table>

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*1: When option ‘-NPT’ is specified, the piping connections of sample water inlet, sample water outlet, and drain port are 1/2NPT, 1/2NPT, and 1NPT respectively. Unless option ‘-NPT’ is specified, they are Rc1/2, Rc1/2, and Rc1 respectively.

*2: This bracket is also available to the detector of Turbidimeter 1720E and 1720D manufactured by HACH. It is separate type, each for detector and converter.

*3: Conduit adapter is for power supply, output and input wiring provided by customer.

*4: Converter and detector case are painted with epoxy resin.

*5: Specify option ‘US’ (ultrasonic transducer) for ultrasonic cleaning. Also TUS400G Ultrasonic Oscillator should be purchased separately.

Note: When ultrasonic cleaning is continuously used after the Model 8562 Turbidimeter Transmitter has been replaced with the TB750G Turbidimeter, this "US" option must be specified.

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*1: Use within a year after purchasing.

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*2: The power supply to TB700G or TB750G should be determined in accordance with the supply voltage specified here.
### Dimensions

1. **TB750G Right Angle Scattered Light Turbidimeter**
   - **Converter**

![Converter diagram](image1)

- **Dimensions**
  - **TB750G** Right Angle Scattered Light Turbidimeter
  - **Converter**

![Converter dimensions](image2)

- **Detector**

![Detector diagram](image3)

- **Dimensions**
  - **Detector**

![Detector dimensions](image4)

- **Conduit adapter (option code: /AFTG, /ANSI)**

![Conduit adapter](image5)

- **Dimensions**
  - **Conduit adapter**

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GS 12E01A06-01E 5th Edition Jun. 03, 2021-00
- **Pipe mounting (option code: /U)**

  Converter

  ![Diagram of Pipe Mounting](image1)

  Unit: mm

  Mounting 2-inch pipe (ø60.5 OD)

  (Note) Dedicated cable is omitted.

- **Detector**

  ![Diagram of Detector Mounting](image2)

  Unit: mm

  Mounting 2-inch pipe (ø60.5 OD)

  Sample water outlet
  Rc1/2 or 1/2NPT

  (Note) Dedicated cable is omitted.

- **Rack or wall mounting (option code: /R)**

  Converter

  ![Diagram of Rack or Wall Mounting](image3)

  Unit: mm

  (Note) Dedicated cable is omitted.
Detector (The dedicated mounting bracket is not attached. Install the detector with four M5 screws.)

Panel mounting (option code: /PM)

Converter

Detector (The dedicated mounting bracket is not attached. Install the detector with four M5 screws.)
Mounting for Model 8562 or Model TB500G replacement (option code: /TBC)

Converter

Detector

(Note) Dedicated cable is omitted.
- Pressurized head tank for low turbidity (option code: /D1)

- Simple head tank (option code: /D2)
2. TUS400G Ultrasonic Oscillator

- External dimensions of additional noise filter assembly when TUS400G-NN-RC or TUS400G-NN-KC

Unit: mm

- Dedicated cable (not applicable in case of "-00")

- Dedicated power cable outlet

- Dedicated power cable for noise filter assembly

- Weight of noise filter assembly: Approx. 2 kg

- Weight of power cable: Approx. 0.2 kg

Unit: mm

- Power supply cable inlet port, with cable gland (DIN Pg16 or equivalent)

- Ultrasonic transducer cable inlet port, with cable gland (DIN Pg16 or equivalent)

- Ground terminal (M4 screw)

- 2-M5 Screws (for mounting hardware)

- 4-M5 screws, (depth:10mm) (for mounting)

Cable length: L

L=1/5/10/15 m

Red

White

Black

L1 Black

L2 White

G Green

Cable length: Approx. 0.7 m

Approx. 80

Approx. 80

External power cable outlet

(cable OD of Ø6 to Ø12)
- **Pipe mounting (option code: /PS)**

  ![Pipe mounting diagram](image)

  - **Pipe mounting bracket 1**
    - 70 holes
    - 2-Ø6.5 holes (for hood)
    - 5-Ø6.5 holes
    - 2-Ø5.5 holes (for oscillator)
  - **Pipe mounting bracket 2**
    - 100 holes
    - 2-Ø6.6 holes (for oscillator)
    - 2-Ø5.5 holes (for hood)
  - Weight: Approx. 0.7 kg

- **Panel mounting (option code: /PA)**

  ![Panel mounting diagram](image)

  - **Panel mounting hardware**
    - 100 holes
    - 4-M5 screws
    - U-bolt
  - **Panel cutout dimensions**
    - Width: 206 mm
    - Height: 185 mm
    - Thickness: 3.9 mm

- **Wall mounting (option code: /W)**

  ![Wall mounting diagram](image)

  - **Wall mounting hardware**
    - 100 holes
    - 2-Ø6.6 holes (for oscillator)
    - 3-Ø10 holes
    - Weight: ±0.2 kg
3. Zero Turbidity Filter Assembly

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Filtering size</th>
</tr>
</thead>
<tbody>
<tr>
<td>K9411UA</td>
<td>1 μm</td>
</tr>
<tr>
<td>K9726EF</td>
<td>0.2 μm</td>
</tr>
</tbody>
</table>
Wiring

TB750G Turbidity detector (Terminal: M4)

TB750G Turbidity converter (Terminal: M3)

Power supply *5

- Power supply "G" on detector, detector case, and converter case must be grounded (ground resistance: 100Ω or less).

Grounding *1 (100Ω or less)

- External grounding terminal of ultrasonic oscillator must be grounded (ground resistance: 100Ω or less).

Ultrasonic transducer connecting cable (maximum length: 15 m) (customer wiring)

Analog output 1 (4-20 mA DC or 0-20 mA DC) *3

Analog output 2

- The wiring configuration is described below in case that RS-232C serial communication is selected.

Serial communication (RS-422)

- When option code "US" is specified, TUS400G should be purchased separately. When TUS400G is used in system, the power supply to TB750G should be the same as the supply voltage specified in the MS Code of TUS400G.

- For TUS400G-NN-RC, TUS400G-NN-KC.

(Note) Dotted wiring is external wiring. Use cable with 6 to 12 mm OD for wiring.

*1 Power terminal "G" on detector, detector case, and converter case must be grounded (ground resistance: 100Ω or less).

*2 External grounding terminal of ultrasonic oscillator must be grounded (ground resistance: 100Ω or less).

*3 Use 2-conductor shielded cable for analog output wiring and serial communication wiring.

*4 The wiring configuration is described below in case that RS-232C serial communication is selected.

*5 When option code "US" is specified, TUS400G should be purchased separately. When TUS400G is used in system, the power supply to TB750G should be the same as the supply voltage specified in the MS Code of TUS400G.

*6 For TUS400G-NN-RC, TUS400G-NN-KC.
Enquiry Specifications Sheet for Model TB750G Right Angle Scattered Light Turbidimeter

For enquires on the Yokogawa sampling system, please tick (✓) the appropriate box □ and write down the relevant information in the blanks.

1. General Information
   - Company name: ____________________________
   - Contact Person: ____________________________ Department: ____________________________
   - Plant name: ____________________________
   - Measurement location: ____________________________
   - Purpose of use: □ Indication, □ Recording, □ Alarm, □ Control
   - Power supply: _______ V AC, _______ Hz

2. Measurement Conditions
   (1) Sample water temperature; ___________ to ___________ , Normally ___________ [°C]
   (2) Sample water pressure; ___________ to ___________ , Normally ___________ [kPa]
   (3) Sample water flow rate; ___________ to ___________ [l/min]
   (4) Slurry or contaminations; □ No, □ Yes ____________________________
   (5) Components of sample water; ____________________________
   (6) Others; ____________________________

3. Installation Site
   (1) Ambient temperature; approx. ___________ [°C]
   (2) Location; □ Indoors ____________________________
   (3) Others; ____________________________

4. Requirements
   (1) Measuring range; ___________ to ___________ NTU
   (2) System configuration selection; □ Pressurized head tank for low turbidity measurement
      (recommended if turbidity is 2.0 NTU or less.), □ Simple head tank, □ TUS400G Ultrasonic Oscillator
      □ Zero turbidity filter(1 μm), □ Zero turbidity filter (0.2 μm)
   (3) Cable length between converter and detector: □ 1 m, □ 2 m, □ 3 m
   (4) Others; ____________________________