



## TOC ANALYZER

# TOC ANALYZER BEY1J1 BEY1J2

## TOTAL ORGANIC CARBON ANALYZER



- Ideal choice to measure Microelectronics Water, Purified Water, Ultra Pure Water and Water For Injection, etc.
- Smart 7 inches touch screen with user-friendly UI, easy to operate and read data.
- UV Oxidation by UV Lamp, no need to add acid, gas or catalyst, greatly reduced experiment cost.
- Equipped with sensitive conductivity detector to quantify TOC concentration accurately.
- Online mode to realize real-time monitoring .
- One button sampling, less sample contamination, no harm on operator and environment.
- Optional PC software, comply with FDA 21 CFR Part 11 requirements and USP, EP,

## SPECIFICATIONS

| Model                   | BEY1J1                        | BEY1J2   |
|-------------------------|-------------------------------|----------|
| Old Model               | BANA-601                      | BANA-602 |
| Measurement Range       | 1-1500 ppb                    |          |
| Detection Limit         | 1 ppb                         |          |
| Max Tolerance           | ±5%                           |          |
| Analysis Time           | 3 min                         |          |
| Response Time           | within 10 min                 |          |
| Sample Flow Speed       | 2 mL/min                      |          |
| Repeatability Tolerance | ≤ 3%                          |          |
| Power Requirement       | AC110/220V, 50/60Hz, 100W     |          |
| Alt Name                | Total Organic Carbon Analyzer |          |

## FEATURES

- Ideal choice to measure Microelectronics Water, Purified Water, Ultra Pure Water and Water For Injection, etc.
- Smart 7 inches touch screen with user-friendly UI, easy to operate and read data.
- UV Oxidation by UV Lamp, no need to add acid, gas or catalyst, greatly reduced experiment cost.
- Equipped with sensitive conductivity detector to quantify TOC concentration accurately.
- Online mode to realize real-time monitoring .
- One button sampling, less sample contamination, no harm on operator and environment.
- Optional PC software, comply with FDA 21 CFR Part 11 requirements and USP, EP, ChP and JP.
- Optional 20-position autosampler.
- 8GB large storage capacity, no restriction of data and time.
- All historical records can be traced by searching test date.
- Data can be retrieved and saved to USB disk directly.
- Equipped with Bluetooth printer for quick data printing.
- Modular design for quick installation and easy maintenance.

## TOC ANALYZER BEY1K1

### TOTAL ORGANIC CARBON ANALYZER



- NDIR detector, high sensitivity and stability.
- Automatic leakage detection system not only avoids the misoperation, but also improves device performance and safety.
- Optional autosampler.
- Multi-functional PC software.
- Precise gas flow control technology improves accuracy.
- Modular design, simplifying device operation and maintenance.

## SPECIFICATIONS

|                    |                               |
|--------------------|-------------------------------|
| Model              | BEY1K1                        |
| Old Model          | BANA-604                      |
| Measurement Method | Wet Chemical Oxidation by UV  |
| Detector           | NDIR                          |
| Analysis Parameter | TC, TIC, TOC, NPOC            |
| Control Mode       | PC Control                    |
| Gas Requirement    | Nitrogen, purity ≥99.995%     |
| Sample Type        | Liquid Sample                 |
| Measurement Range  | 0-10000 mg/L (ppm)            |
| Detection Limit    | 5 µg/L (ppb)                  |
| Repeatability      | 3%                            |
| Maximum Salinity   | 85 g/L                        |
| Power Requirement  | AC110/220V, 50/60Hz, 200W     |
| Alt Name           | Total Organic Carbon Analyzer |

## TOC ANALYZER BEY1L1 BEY1L2

### TOTAL ORGANIC CARBON ANALYZER



- Auto sample dilution, auto acid-adding and auto gas purging .
- 680°C catalytic oxidation technology with platinum catalyst, especially for seawater test.
- NDIR detector, high sensitivity and stability.
- Optional autosampler.
- Multi-functional PC software.
- Precise gas flow control technology improves accuracy.
- PID temperature controlling technology, ensure higher accuracy.
- Unique three-stage dehydration technology improves drying efficiency.
- Personalized standard curve management provides great convenience for users.
- Consumables management reminds users to replace consumables in time.
- Modular design, simplifying device operation and maintenance.

## SPECIFICATIONS

| Model                  | BEY1L1                                                        | BEY1L2                                                             |
|------------------------|---------------------------------------------------------------|--------------------------------------------------------------------|
| Old Model              | BANA-608-A                                                    | BANA-608-B                                                         |
| Measurement Method     | High Temperature Catalytic Combustion                         |                                                                    |
| Detector               | NDIR                                                          |                                                                    |
| Analysis Parameter     | TC, TIC, TOC, NPOC                                            |                                                                    |
| Control Mode           | PC software controlled                                        |                                                                    |
| Gas Requirement        | Oxygen, purity $\geq 99.995\%$                                |                                                                    |
| Sample Type            | Liquid sample                                                 | Solid sample                                                       |
| Measurement Range      | 0-1000 mg/L, can extend to 0-100,000 mg/L (Manually dilution) | 0-1000 mg/L, can extend to 0-100,000 mg/L (Automatically dilution) |
| Limit of Detection     | TC: 50 $\mu\text{g/L}$                                        | IC: 20 $\mu\text{g/L}$                                             |
| Measuring Time         | TC: around 4 min                                              | IC: around 3 min                                                   |
| Max. Permissible Error | TOC: $\pm 5\%$                                                | IC: $\pm 4\%$                                                      |
| Repeatability          | $\leq 3\%$                                                    |                                                                    |
| Injection Volume       | TC: 100-500 $\mu\text{L}$                                     | IC: 100-2000 $\mu\text{L}$                                         |
| Power Requirement      | AC110/220V, 50/60Hz, 700W                                     |                                                                    |
| Alt Name               | Total Organic Carbon Analyzer                                 |                                                                    |

## ACCESSORIES FOR PURCHASE

| No | Name        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Autosampler | Sample Type:Liquid sample<br>Max. Number of Samples:19 sample positions an 1 cleaning position<br>Volume of Sample Bottle:60 mL<br>Ambient Temperature:0-40 °C<br>Relative Humidity: $\leq 85\%$<br>Power:AC100-240V, 50/60 Hz, 120W                                                                                                                                                                                                                                                                                                                                          |
| 2  | Autosampler | Sample Type:Solid or Suspension liquid sample<br>Control Mode:PC software controlled<br>Analysis Parameter:TC, TIC, TOC (TC-IC)<br>TC Measurement Method:High temperature catalytic combustion (900°C; Max 1000°C)<br>TIC Measurement Method:Acidification at 200°C<br>Sample Carrier:Quartz boat<br>Gas Requirement:Oxygen, purity $\geq 99.995\%$ (TOC analyzer provides); Flow rate: 500 mL/min<br>Measurement Range:0.1-30.0 mg<br>Max. Sample Volume:Solid: 1.0 g; TC liquid: 0.5 mL; IC liquid: 0.3 mL<br>Measurement Time:5-8 min<br>Power:AC100-240V, 50/60 Hz, 1000W |



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