

FIELD WORKFLOW

# Yokogawa BT100

BRAIN Terminal

Yokogawa BT100 is a portable BRAIN Terminal used to view, set and transfer parameters for supported BRAIN-compatible field instruments. Its keypad, two-line display and non-volatile memory support controlled field-instrument setup and service work.

## Release-gate sequence



## Before work starts

- Confirm the BT100 nameplate and condition.
- Identify the exact field-instrument model and suffix.
- Read the instrument's BT100/BRAIN connection procedure.
- Inspect the communication cable and connectors.
- Record the existing tag, range and critical parameters.
- Confirm the area is safe for the planned connection work.

## Field record essentials

|                                                                   |                                                                        |
|-------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>MODEL ID</b><br>Record BT100 exactly.                          | <b>SYSTEM</b><br>BRAIN-compatible field instruments                    |
| <b>SETTINGS</b><br>Preserve the verified installed configuration. | <b>TEST BASIS</b><br>Define static and functional acceptance evidence. |

## Pre-installation verification

### CHECK 01

Confirm the BT100 nameplate and condition.

### CHECK 02

Identify the exact field-instrument model and suffix.

### CHECK 03

Read the instrument's BT100/BRAIN connection procedure.

### CHECK 04

Inspect the communication cable and connectors.

### CHECK 05

Record the existing tag, range and critical parameters.

### CHECK 06

Confirm the area is safe for the planned connection work.

### CHECK 07

Decide whether the task is read-only, adjustment, upload or download.

### CHECK 08

Prepare an acceptance record before making changes.

## Interface inventory

- The communication cable connects the BT100 to a supported BRAIN field instrument.
- The two-line LCD presents model, tag, self-check, menu and parameter information.
- MENU selects a main menu and PMTR steps through its parameters.
- INC and DEC review available parameter choices.
- ALPHA changes between alphabetic and numeric entry modes.
- ENT is pressed twice when a changed value is to be stored.
- UPLD reads a supported instrument data set into non-volatile memory.
- DNLD transfers a stored data set only after exact instrument compatibility is confirmed.

### Hold point

Do not continue if the complete model, field-circuit identity, stored settings, protective functions or safe isolation state cannot be verified. Preserve existing wiring records and escalate the exact unresolved item.

## Installation sequence

1

Place the process and target instrument in the approved maintenance condition.

2

Connect the documented communication cable to the top of BT100.

3

Connect the instrument end at the exact points specified in its manual.

4

Power on BT100 and verify the model, tag and self-check displays.

5

Use MENU and PMTR to reach the required parameter.

6

Review or edit using INC, DEC and ALPHA as applicable.

7

Press ENT twice only when an approved change is ready to be stored.

8

Re-read changed values and perform the required process-function check.

## Commissioning and acceptance

### GATE 1

BT100 identity verified

### GATE 2

Target model and suffix recorded

### GATE 3

Correct cable and connection point used

### GATE 4

Startup self-check reviewed

### GATE 5

Original settings archived

### GATE 6

Changed values independently checked

### GATE 7

Upload or download compatibility confirmed

### GATE 8

Functional test and final record completed

## Fault-response checks

- No startup display: inspect the terminal condition and power source before connecting to an instrument.
- No communication: verify the exact cable, connection point and instrument BRAIN support.
- Unexpected model or tag: stop and reconcile the connected instrument identity.
- Parameter cannot be found: return through the documented menu sequence instead of guessing a key path.
- Value will not save: verify entry mode and the required double-ENT confirmation.
- Upload or download mismatch: cancel the transfer and compare both exact instrument configurations.

### Acceptance boundary

Release only after the normal state, commanded state, principal fault state and recovery behavior have all been observed at the field device, module and control-system indication.

Reference and handover

SOURCE 1

Yokogawa official BT100 discontinued-product page, model name, lifecycle date and BT200 replacement.

SOURCE 2

Yokogawa IM 1F2B4-01-YIA, BT100 Basic Operation and BRAIN communication instructions.

Related products

Verified related products on ApterPower

Yokogawa ET5\*B

Universal thermocouple input card

[View Yokogawa ET5\\*B](#)

Yokogawa PW404 S1

Power supply module

[View Yokogawa PW404 S1](#)

Yokogawa A2EE1A-T

ESB bus terminator

[View Yokogawa A2EE1A-T](#)

CONFIGURATION

Final settings and mappings archived

WIRING

Terminal and conductor labels reconciled

TEST RECORD

Measured results and fault tests retained

OPERATIONS

Normal indication and response briefed

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EMAIL [sales13@apterpower.com](mailto:sales13@apterpower.com)

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Share the exact BT100 nameplate, application and required quantity for a model-specific quotation.