

EXACT-MODEL ENGINEERING SUMMARY

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.

SYSTEM CONTEXT BRAIN-compatible field instruments

Verified highlights

- Portable BRAIN parameter-setting terminal
- Sixteen-character by two-line LCD
- Upload and download through non-volatile memory
- Automatic power-off after about five idle minutes

Functional signal path

FIELD / SYSTEM INPUT

The communication cable connects the BT100 to a supported BRAIN field instrument.

EXACT-MODEL INTERFACE

The two-line LCD presents model, tag, self-check, menu and parameter information.

INTERNAL PROCESSING

MENU selects a main menu and PMTR steps through its parameters.

CONTROL-SYSTEM RESULT

INC and DEC review available parameter choices.

Verified technical matrix

Device type	BRAIN Terminal
Display	LCD, 16 characters x 2 lines
Startup indication	Model No., Tag No., Self-check
Menu navigation	MENU and PMTR keys
Parameter review	INC and DEC keys

Character entry	ALPHA key, alphabetic/numeric modes
Write confirmation	ENT key x 2
Setting transfer	UPLD/DNLD via non-volatile memory
Automatic power-off	About 5 minutes idle
Cable interface	Top-mounted communication cable

Engineering boundary

Only the values shown in the exact-model source set are stated. Final settings, wiring, firmware, companion devices and safety functions must be matched to the installed system before energization.

Interfaces and system relationships

INTERFACE 1

The communication cable connects the BT100 to a supported BRAIN field instrument.

INTERFACE 2

The two-line LCD presents model, tag, self-check, menu and parameter information.

INTERFACE 3

MENU selects a main menu and PMTR steps through its parameters.

INTERFACE 4

INC and DEC review available parameter choices.

INTERFACE 5

ALPHA changes between alphabetic and numeric entry modes.

INTERFACE 6

ENT is pressed twice when a changed value is to be stored.

INTERFACE 7

UPLD reads a supported instrument data set into non-volatile memory.

INTERFACE 8

DNLD transfers a stored data set only after exact instrument compatibility is confirmed.

Where the module is used

Field-instrument setup

Reads and changes documented parameters such as model-related configuration, tag and operating settings on a supported BRAIN device.

Commissioning checks

Displays instrument identification and self-check information before parameter review or controlled adjustment.

Maintenance comparison

Uploads an approved parameter set so technicians can compare or preserve settings during service work.

Like-for-like configuration transfer

Downloads stored settings only between instruments whose exact model, range and configuration have been verified as compatible.

Engineering checks and diagnostic decisions

1

No startup display: inspect the terminal condition and power source before connecting to an instrument.

2

No communication: verify the exact cable, connection point and instrument BRAIN support.

3

Unexpected model or tag: stop and reconcile the connected instrument identity.

4

Parameter cannot be found: return through the documented menu sequence instead of guessing a key path.

5

Value will not save: verify entry mode and the required double-ENT confirmation.

6

Upload or download mismatch: cancel the transfer and compare both exact instrument configurations.

7

Automatic shutdown: distinguish normal idle power-off from a terminal or connection fault.

8

After correction, repeat identification, self-check and the affected parameter verification.

Evidence ledger

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.

Engineering FAQ

Q1 What is Yokogawa BT100?

It is a portable BRAIN Terminal for viewing, setting and transferring parameters on supported BRAIN-compatible field instruments.

Q2 What does Yokogawa BT100 display when it starts?

It shows Model No., Tag No. and Self-check before menu operation.

Q3 How are menus and parameters navigated on Yokogawa BT100?

Use MENU to select a main menu and PMTR to move through parameters; INC and DEC review available choices.

Related products

Verified related products on ApterPower

Yokogawa CP451-10 S2

CENTUM VP processor module

[View Yokogawa CP451-10 S2](#)

Yokogawa EB401-50-S1

ER bus interface master module

[View Yokogawa EB401-50-S1](#)

Yokogawa ALF111-S50-S1

FOUNDATION Fieldbus communication module

[View Yokogawa ALF111-S50-S1](#)

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