

QUICK START USING THE BT100/200

II. QUICK START

BT100/BT200 HANDHELD TERMINAL

Note: If you specified the correct process conditions on your order, these parameters have been preset at the factory; therefore, there is no need to re-enter the data.

The Style E YEWFLO is a smart communicating device with microprocessor-based technology. When used with Yokogawa's BT100 or BT200 handheld terminal (HHT), YEWFLO can be configured to meet specific application needs. In addition, the optional local indicator/totalizer (TBL option) allows setting of various parameters.

When in the analog output mode, the HHT may be connected at any point on the instrument's 4-20 mA loop. This connection superimposes a digital signal on top of the instrument's 4-20 mA signal making communications completely transparent to your process signal. On the other hand, since there are no 4-20 mA wires in the pulse mode, direct connection of the HHT to the HHT PULSE and HHT COM test points on the amplifier is necessary. Once connected, flowrate and total can be read, tag numbers entered, meter size or any other parameter modified as required. Additionally, you may activate or deactivate many features of the YEWFLO as necessary to meet the requirements of your application.

The HHT will enable you to scroll through the program until you locate the parameter that you wish to change. For communication information, see "How to communicate with the YEWFLO remotely" in the maintenance section. Please refer to the appropriate HHT instruction manual for details on each HHT.

To change a parameter using the BT100, insert the removable key in the lock and turn it clockwise to the ENABLE position. If the key is not in place or if it is in the INHIBIT position, you will receive an OPERATION ERR message on the display when you press either the **INC** or **DEC** key or try to enter an alphanumeric value in any parameter. If this occurs, insert the key in the lock, turn it clockwise to the ENABLE position then press either the **INC**, **DEC** or alphanumeric key as before.

2.1 PARAMETER SETTING IN BRAIN™ COMMUNICATIONS

The Model YF100*E Vortex flowmeter incorporates BRAIN™ communication functions. These functions enable the Vortex converter to remotely carry out the following functions by communicating with the BRAIN™ Terminal (BT100 or BT200), μ XL, or Centum-XL distributed control systems.

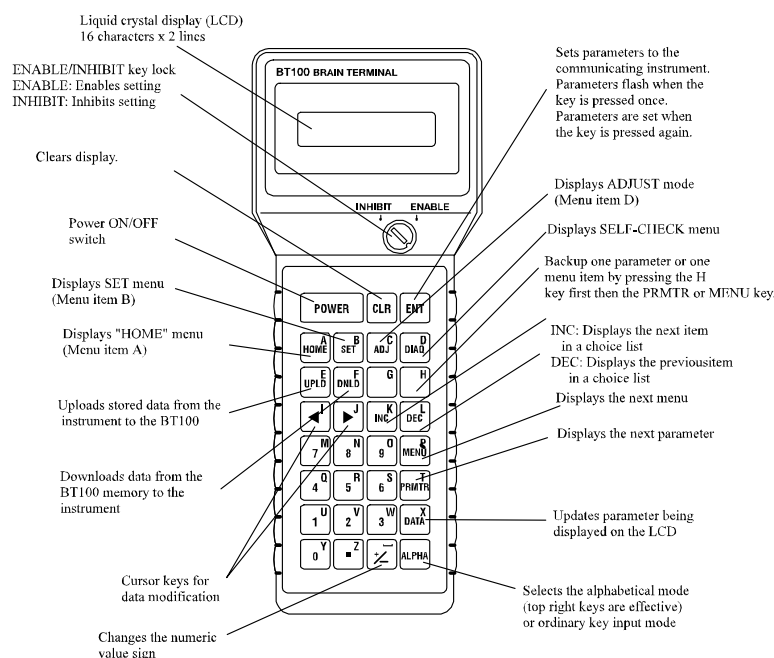
- Setting or changing parameters required for vortex meter operation such as tag number, flow span and process conditions for example.
- Monitoring flowrate, totalized flow and self-diagnostics.
- 4-20 mA loop check (simulated output) and totalizer reset.

Note: When the pulse/analog jumpers are set for a pulse output, **Remote** BRAIN™ communication on the 4-20 mA wires is not available. Therefore parameters cannot be set or read remotely. For the BT100 to operate in the pulse output mode, the instrument must be connected to the test points labeled **HHT Pulse** and **HHT Com**. This allows access to all parameters.

Note: Only the position of the jumpers affects remote communication ability, the software setting of pulse or 4-20 mA has no effect.

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BT100 Basic Operation



- 1) POWER on.
- 2) First three key strokes will always display "Model No.", Tag No.", and "Self-check".
- 3) Press **MENU** key to select desired main menu.
- 4) Press **PMTR** key to move down through the selected menu.
- 5) Once a parameter has been selected, use the **INC** or **DEC** keys to review options within the parameter list. When data input is required, use the alpha key to toggle between the alphabetical characters (A to Z, 0 to 9).
- 6) Once a parameter has been selected, push **ENT** twice to save the changes.

- Notes:**
- A) Use the **ALPHA** key to move between alphabetical and numeric characters.
 - B) To back up in the programming sequence, push **H** key and then **PMTR** when in parameter mode or **MENU** when in main menu mode.
 - C) **UPLD** and **DNLD** keys permit copying settings from one instrument in BT100 non-volatile memory to another instrument.
 - D) The automatic power-off of the BT100 automatically turns off the power when no key has been pressed for about 5 minutes. This function is not active during the display A10: Flowrate %, A20: Flowrate, or A30: Total. The display of these values is updated every 5 seconds.

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2.2 YEWFLO SETUP

Note: If you specified the correct process conditions on your order, these parameters have been preset at the factory; therefore, there is no need to re-enter the data.

The purpose of a Quick Start is to address only those parameters which must be set to establish the operation of a meter for this application. Follow the parameters listed below and enter the data for your particular application.

With the BT100 or BT200 properly connected to the Vortex meter begin communicating by pressing the power button. After the power up sequence is complete, go to “ Menu B: SET 1”. The operation of the BT100 and BT200 are slightly different. Please refer to the ‘Basic Handheld Terminal Operation’ if you are unfamiliar with how to move through the menus and parameters. The following flow chart identifies only the parameters to be set, you may have to skip several parameters or menus to get to the parameters shown below. **Be sure to enter all values and selections shown below or they will not be saved. If you make a typing error, use the C L R key to clear and re-enter.**



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