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 **I** NC 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 **I** NC, **DEC** or alphanumeric key as before.

2.1 PARAMETER SETTING IN BRAINTM COMMUNICATIONS

The Model YF100*E Vortex flowmeter incorporates BRAINTM communication functions. These functions enable the Vortex converter to remotely carry out the following functions by communicating with the BRAINTM 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.





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 **I NC** or **DEC** keys to review options within the parameter list. When data input is required, use the alpha key to toggle betw een the alpha and num eric 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 alpha 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 m and m enu 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.



BT 200 Basic Operation



- 1) Press ON/OFF to activate power.
- 2) Press ENTER key when prompted.
- 3) "M od el", "Tag No.", and "Self-check" will always be displayed rext.
- 4) Press **F4** to continue. The main menulist will be displayed rext.
- 5) Highlight the desired meru by using the up and downmovement keys. Press **ENTER** to access the selected meru.
- 6) Use the up and dow nm ovem ent keys to highlight the desired parameter and press **ENTER** to access.
- 7) Once a parameter has been selected either:
 - a) Use the up and dow nm ovem ent keys to review options within the parameter. Once the appropriate option has been selected, press **ENTER** twice to edit the selection
 - b) Where data input is required, use the alpha key to toggle between the alpha and numeric characters. Press **ENTER** twice to save the charges.
- **Notes:** A) The function keys (**F1-F4**) are used to execute the commands displayed at the bottom of the screen
 - B) Use the left (<) and right (>) movement keys to change whole page of displayed information. The "<" key shows the preceding page and the ">" key the following page.
 - C) To select a desired alpha character, always use the appropriate SHIFT key. Use the green shift key to select letters marked in green and the black shift key to select letters marked in black. If the alpha/numeric keys are not used in conjunction with the SHIFT key, the numeric value shown on the key will be displayed.
 - D) To go directly to a particular parameter anywhere in the menu tree while working in a menu, press either **SHI FT** key and then press **F4**. Type the parameter designation (example B24) to be displayed and press **ENTER**.

