



# HITACHI P1 Variable Frequency Drive User Guide

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**HITACHI P1 Variable Frequency Drive**



## Quick Start Essential Parameters

- **AA101**
  - Frequency (Speed) Source (default 01 Analog Input 1)
- **AA111**
  - Run Command Source (default 0 Terminal FW/RV) [2 wire control]
- **AA115**
  - Stop Mode Selection (default 00)
- **Hb102**
  - Motor Capacity in kilowatts (default NA)
- **Hb103**
  - Motor Poles (default 4 poles)
- **Hb104**
  - Base Frequency (default 60Hz)
- **Hb105**
  - Maximum Frequency (default 60Hz)
- **Hb106**
  - Motor Voltage
- **Hb108**
  - Motor Current in Amps
- **FA-01**
  - Keypad Speed Setting (default 00.00)
- **FA-10**
  - Acceleration Time (default 30 seconds)
- **FA-12**
  - Deceleration Time (default 30 seconds)

## To Enter Programming Mode and Use the P1 Keypad for Programming

### KEYPAD FUNCTIONS

The top buttons numbered 1 and 2 are soft keys as they change functions with different programming screens.

- **A** The direction pad is used to navigate through parameters
- **B** The center of the direction pad is the Enter key (o)
- **C** Run is the Green bottom left key
- **D** Stop is the Red bottom right key

Now you are ready to program your P1 drive.



### To Set the Motor Data

The parameters are grouped together intuitively for simple programming.

1. Press the 1 (Menu) soft key to enter Programming Mode

2. Press enter to select Scroll Mode
3. Press down until H: Motor Control is reached
4. Press the enter key
5. Press the 2 (Next Gr.) soft key until Hb parameters are reached. If you go too far, keep pressing the 2 key and the parameter list will swing back around to the HA group
6. Enter the motor data in the parameters listed below.

- **Hb102–**

Motor Capacity (kw)

- **Hb103**

– Motor Poles

- **Hb104**

– Base Frequency (Hz)

**Hb105**

-Max Frequency (Hz)

- **Hb106**

– Motor Voltage (VAC)

- **Hb108**

– Motor Current (Amps)

7. Press 2 (Save) soft key to save the data for each parameter.

BE SURE TO PRESS 2 (SAVE) SOFT KEY TO SAVE THE DATA TO EEPROM



### To Set the Speed Reference

1. Press the 1 (Menu) soft key to enter Programming Mode
2. Press enter to select Scroll Mode
3. Press down until A: Standard Functions is reached
4. Press the enter key
5. Press enter to select parameter AA101

6. Select the speed reference from the options below

- 1 – Analog Input 1 (Ai1)
- 2 – Analog Input 2 (Ai2)
- 3 – Analog Input 3 (Ai3)
- 4 – Analog Input 4 (Ai4)
- 5 – Analog Input 5 (Ai5)
- 6 – Analog Input 5 (Ai6)
- 7 – Keypad (parameter FA-01)
- 8 – RS485 (Modbus communication)
- 9 – Option 1
- 10 – Option 2
- 11– Option 3
- 12– Pulse Train (In)
- 13– Pulse Train (Opt)
- 14– EzSq (Easy Sequence Programming)
- 15– PID
- 16 – VR (Potentiometer on Keypad)

7. Press 2 (Save) soft key to save the data

BE SURE TO PRESS 2 (SAVE) SOFT KEY TO SAVE THE DATA TO EEPROM



### To Set the Run Command Source

- 1. Press the 1 (Menu) soft key to enter Programming Mode
- 2. Press enter to select Scroll Mode
- 3. Press down until A: Standard Functions is reached
- 4. Press the enter key
- 5. Press down key until AA111 is reached

6. Press enter to select parameter AA111
7. Now you can select the Run Command Source from the options below
  - 0– Terminal (FW)/ (RV)
  - 1– 3 Wire
  - 2– Runkey (Keypad)
  - 3– RS485
  - 4– Option-1
  - 5– Option-2
  - 6– Option-3
8. Press 2 (Save) soft key to save the data

BE SURE TO PRESS 2 (SAVE) SOFT KEY TO SAVE THE DATA TO EEPROM



### To Set the Speed in Hz Using the Keypad Parameters

1. Press the 1 (Menu) soft key to enter Programming Mode
2. Press enter to select Scroll Mode
3. Press down until F: Ref-Mon./Setting is reached
4. Press the enter key
5. Press enter to select parameter FA-01
6. Now you can select the Running speed using the Direction keys on the direction keypad
7. Press 2 (Save) soft key to save the data

This parameter can be changed while the motor is running or stopped

BE SURE TO PRESS 2 (SAVE) SOFT KEY TO SAVE THE DATA TO EEPROM



### To Set the Acceleration and Deceleration Times

1. Press the 1 (Menu) soft key to enter Programming Mode
2. Press enter to select Scroll Mode
3. Press down until F: Ref-Mon./Setting is reached
4. Press the enter key
5. Press the down key until FA-10 (Acceleration) or FA-12 (Deceleration) is reached
6. Press enter to select parameter FA-10 for Acceleration or FA-12 for Deceleration
7. Now you can adjust the Accel/Decel time using the Direction keys on the direction keypad
8. Press 2 (Save) soft key to save the data

BE SURE TO PRESS 2 (SAVE) SOFT KEY TO SAVE THE DATA TO EEPROM



### To Set the Stop Mode

1. Press the 1 (Menu) soft key to enter Programming Mode
2. Press enter to select Scroll Mode

3. Press down until A: Standard Functions is reached
4. Press the enter key
5. Press the down key until AA115 is reached
6. Press enter to select parameter AA115
7. Now you can select the Stop Mode from the options below
  - 0- Decel. To STOP
  - 1- Free run STOP
8. Press 2 (Save) soft key to save the data

BE SURE TO PRESS 2 (SAVE) SOFT KEY TO SAVE THE DATA TO EEPROM



TECH SUPPORT

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## Documents / Resources

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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><a href="#">HITACHI P1 Variable Frequency Drive</a> [pdf] User Guide<br/>P1, Variable Frequency Drive, P1 Variable Frequency Drive</p> |
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