

9 Working with Parameters



Warning

This product uses software which is controlled by parameters. The product will perform to specification with the setting of correct and logical values. Incorrect setting of parameters is potentially hazardous.

Adjustment of the parameters must be carried out by skilled and trained personnel.

The Drive is controlled by programmable software parameters. The parameters are positioned at strategic places in the control system.

You can improve the configuration of the Drive for the motor used and for simple applications by changing the values of appropriate parameters. Programming instructions are given in Chapter 7 *Programming Instructions*.

9.1 Types of parameter

There are two types of parameter, as follows:

- Operating parameters, denoted by **pxx**
- Bit parameters denoted by **bx**

Operating parameters allow the following to be entered:

- Values
- Character strings
- Selection options

Bit parameters allow digital settings to be made.

Both types of parameter can be as follows:

- Read–write (R–W)
- Read-only (RO)

Read–write parameters are programmable by the user. Read-only parameters are for information purposes. They cannot be programmed.

The settings of read–write and read-only parameters can be read on the display or remotely on a host PC using serial communications.

Each parameter has a number and a name which are represented in this Guide as in the following example:

p2 *Acceleration time*

b2 *Stopping mode selector*

Where:

p indicates a variable parameter

b indicates a bit parameter

You can read and change (edit, write to) parameter values using the following:

Using the display and keys on the Drive

Using serial communications and a host PC

9.2 Serial Communications mnemonics

Each parameter has a mnemonic that must be used when addressing the parameter using serial communications.

9.3 Default values

Each read–write parameter has a default value which is defined by the manufacturer. These default values allow a motor having the specified power rating to be adequately controlled by the Drive when used in simple applications.

Although the parameter values can be changed, the default values themselves cannot be erased or changed by the user.

9.4 Menus

The parameters are grouped in menus as follows:

Menu 0 Standard parameters

Menu 10 Skip frequencies

Menu 20 Preset speeds

Menu 30 Preset acceleration

Menu 40 Preset deceleration

Menu 50 Automatic reset

Menu 60 Read-only parameters and dynamic braking voltage

The parameters are listed in the same order as they appear on the display.

