Control panels

About control panels

Use a control panel to control the drive, read status data and adjust parameters. The drive works with either of two different control panel types:

- Basic Control Panel – This panel (described in section *Basic Control Panel* on page *62*) provides basic tools for manual entry of parameter values.
- Assistant Control Panel – This panel (described below) includes pre-programmed assistants to automate the most common parameter setups. The panel provides language support. It is available with different language sets.

Compatibility

The manual is compatible with the following panel versions:

- Basic Control Panel: ACS-CP-C Rev. K
- Assistant Control Panel (Area 1): ACS-CP-A Rev. Y
- Assistant Control Panel (Area 2): ACS-CP-L Rev. E
- Assistant Control Panel (Asia): ACS-CP-D Rev. M

See page *45* for how to find out the version of your Assistant Control Panel. See parameter *9901* LANGUAGE to see the languages supported by the different Assistant Control Panels.

Complete parameter descriptions

This section describes the actual signals and parameters for ACS550.

Group 99: START-UP DATA

This group defines special start-up data required to:

- set up the drive
- enter motor information.

Code	Description
9901	**LANGUAGE** Selects the display language. There are two different Assistant Control Panels, each supporting a different language set. (Panel ACS-CP-L supporting languages 0, 2, 11…15 will be integrated into ACS-CP-A.) Assistant Control Panel ACS-CP-A: 0 = ENGLISH 1 = ENGLISH (AM) 2 = DEUTSCH 3 = ITALIANO 4 = ESPAÑOL 5 = PORTUGUES 6 = NEDERLANDS 7 = FRANÇAIS 8 = DANSK 9 = SUOMI 10 = SVENSKA 11 = RUSSKI 12 = POLSKI 13 = TÜRKÇE 14 = CZECH 15 = MAGYAR Assistant Control Panel ACS-CP-D (Asia): 0 = ENGLISH 1 = CHINESE 2 = KOREAN 3 = JAPANESE
9902	**APPLIC MACRO** Selects an application macro. Application macros automatically edit parameters to configure the ACS550 for a particular application. 1 = ABB STANDARD 2 = 3-WIRE 3 = ALTERNATE 4 = MOTOR POT 5 = HAND/AUTO 6 = PID CONTROL 7 = PFC CONTROL 8 = TORQUE CTRL 31 = LOAD FD SET 0 = USER S1 LOAD -1 = USER S1 SAVE -2 = USER S2 LOAD -3 = USER S2 SAVE 31 = LOAD FD SET – FlashDrop parameter values as defined by the FlashDrop file. Parameter view is selected by parameter 1611 PARAMETER VIEW. • FlashDrop is an optional device for fast copying of parameters to unpowered drives. FlashDrop allows easy customization of the parameter list, e.g. selected parameters can be hidden. For more information, see *MFDT-01 FlashDrop User's Manual* [3AFE68591074 (English)]. -1 = USER S1 SAVE, -3 = USER S2 SAVE – With these it is possible to save two different user parameter sets into the drive permanent memory for later use. Each set contains parameter settings, including *Group 99: START-UP DATA*, and the results of the motor identification run. 0 = USER S1 LOAD, -2 = USER S2 LOAD – With these the user parameter sets can be taken back in use.
9904	**MOTOR CTRL MODE** Selects the motor control mode. 1 = VECTOR:SPEED – sensorless vector control mode. • Reference 1 is speed reference in rpm. • Reference 2 is speed reference in % (100% is absolute maximum speed, equal to the value of parameter 2002 MAXIMUM SPEED, or 2001 MINIMUM SPEED if the absolute value of the minimum speed is greater than the maximum speed). 2 = VECTOR:TORQ. • Reference 1 is speed reference in rpm. • Reference 2 is torque reference in % (100% is nominal torque.) 3 = SCALAR:FREQ – scalar control mode. • Reference 1 is frequency reference in Hz. • Reference 2 is frequency reference in % (100% is absolute maximum frequency, equal to the value of parameter 2008 MAXIMUM FREQ, or 2007 MINIMUM FREQ if the absolute value of the minimum speed is greater than the maximum speed).
9905	**MOTOR NOM VOLT** Defines the nominal motor voltage. • Must equal the value on the motor rating plate. • The ACS550 cannot supply the motor with a voltage greater than the input power (mains) voltage.