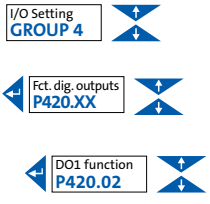
Reference card Inverter i510/i550

Operation of keypad
Example: P420.02



Group 0 – Favourites
Group 1 – Diagnostics
Group 2 – Basic setting
Group 3 – Motor control
Group 4 – I/O setting
Group 5 – Network setting
Group 6 – Process controller
Group 7 – Additional functions
Group 8 – Sequencer

	Navigation in the menu Parameter alteration
	Go to Menu/Parameters Confirm parameter
	Quit Menu/Parameters
CTRL	Keypad control
	Start motor
R F	Change direction of rotation
	Stop motor

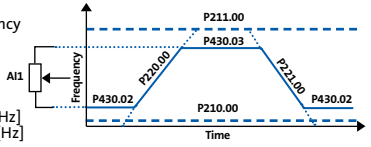
Group 0 - Favourites: Quick access to most important parameters (*)

Procedure during commissioning

1. Load default setting: Set P700.01 = 1
2. Select language: P705.00 1 = English; 2 = German
3. Basic setting V/f characteristic control:

*P208.01 Set mains voltage
*P303.01 Basic voltage = Rated motor voltage
*P303.02 Basic frequency = Rated motor frequency

*P210.00 Minimum frequency [Hz]
*P211.00 Maximum frequency [Hz]
*P220.00 Acceleration time [s]
*P221.00 Deceleration time [s]
*P430.02 Analog input 1: Min frequency value [Hz]
*P430.03 Analog input 1: Max frequency value [Hz]



Control of inverter by means of keypad

Set parameters:
*P200.00 = 1 (Keypad as control source)
*P201.01 = 1 (Keypad as setpoint source) or CTRL

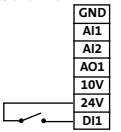
Operation:

R F Reverse direction of rotation

Change frequency setpoint

Start/stop motor

Connection: I/O terminals

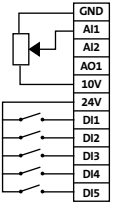


24 VDC, 100 mA supply,
Start enabling

Control of inverter by means of terminals (default setting)

Set parameters:
*P450.01 Frequency setpoint presets: Freq. preset 1 [Hz]
*P450.02 Frequency setpoint presets: Freq. preset 2 [Hz]
*P450.03 Frequency setpoint presets: Freq. preset 3 [Hz]

Connection:

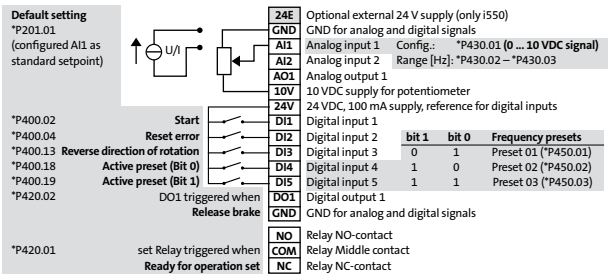


GND
Frequency
setpoint Input range [Hz]:
*P430.02 - *P430.03
10 VDC supply
24 VDC, 100 mA supply
Start
Reset error
Reverse direction of rotation
Activate preset (Bit 0)
Activate preset (Bit 1)

Save parameter: > 3 SET **Flashes = Not saved** **On = Saved**

Reference card Inverter i510/i550

Flexible I/O configuration



- **Set standard setpoint source** *P201.01. Run forwards/backwards (static), Start forwards/backwards (edge)
- **Activate quick stop** *P400.03: Bring motor to a standstill in shortest time possible.
- **Jog forwards** *P400.10 (Preset 05) and **Jog backwards** *P400.11 (Preset 06): Initiate status-controlled motor rotation with setpoint preset.
- **Reverse direction of rotation** *P400.13: Invert frequency setpoint.

Diagnostics

*P100.00 Output frequency
P102.00 Frequency setpoint [Hz]
*P103.00 Current actual value

P125.01 Active control source
P125.02 Active setpoint source

RDY	ERR	Status/meaning
off	off	No supply voltage.
1 Hz		Safe torque off (STO) active.
		Safe torque off (STO) active, warning active.
2 Hz		Inverter inhibited.
		Inverter inhibited, no DC-bus voltage.
		Inverter inhibited, warning active.
		Inverter inhibited, error active.
		Inverter enabled and motor rotating or quick stop is active.
		Inverter enabled and motor rotating, warning signalled.
		Inverter enabled, quick stop as response to fault active.

Error message	Cause (W. = Warning, T. = Fault, F. = Error)	Remedy
.2382/.2383	Ixt error/Ixt warning.	Reduce load, adapt ramps
.3210/.3211	Overvoltage DC bus/ Warning Overvoltage DC bus.	Ramp time too short or motor is running in generator mode
.3220/.3221	Undervoltage DC bus/ Warning Undervoltage DC bus.	Check supply
.3222	DC-bus voltage to low for switch-on.	Check supply
.4310	Motor overtemperature problem (PTC).	Check ambient temperature and motor load
.6280	Trigger/functions incorrectly connected.	In the case of **flexible I/O configuration** *P200.01, **Inverter enable** *P400.01 or Start *P400.02 must have been assigned to an I/O. Do not use **Start forwards/backwards** and Run **forwards/backwards** at the same time.
.FF37	Automatic start inhibited.	Remove start enable signal