



CONTROLS & DRIVES LTD

The Industrial Automation Specialists



Technical Tip

Mitsubishi 700 Series

Analogue Control with STF Start Command

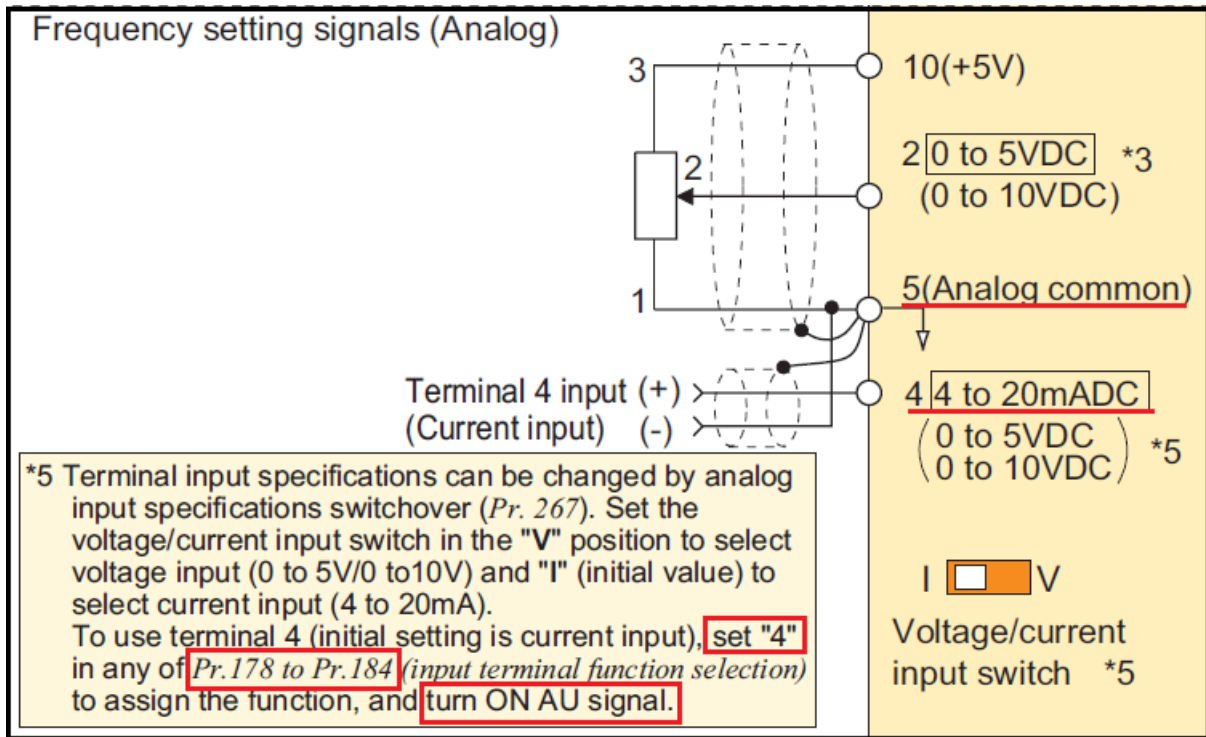


Part of the **B P X** Group





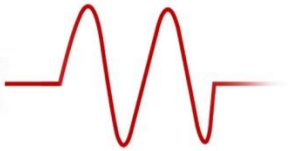
1. Connect the analogue output source to **Terminal 4(+)** and **5(common)** on the inverter.
Please note that **Terminal 4** is set to **4-20mA** as default.



2. Keep the **STF terminal Parameter 178** as default '60'.
3. Assign an unused terminal as an 'AU Terminal'.
This example sets the **RL terminal** as the **AU terminal**, by changing **Parameter 180** to '4'.
To use **Terminal 4** (initially set to 4-20mA as default), turn **ON** the **AU signal**.

Parameter Number	Name	Initial Value	Initial Signal	Setting Range
178	STF terminal function selection	60	STF (forward rotation command)	0 to 5, 7, 8, 10, 12, 14 to 16, 18, 24, 25, 60*1, 61*2, 62, 65 to 67, 9999
179	STR terminal function selection	61	STR (reverse rotation command)	
180	AU terminal function selection	4	RL (low-speed operation command)	
181	RM terminal function selection	1	RM (middle speed operation command)	
182	RH terminal function selection	2	RH (high-speed operation command)	
183*3	MRS terminal function selection	24	MRS (output stop)	
184	RES terminal function selection	62	RES (inverter reset)	





4. Change **Parameter 79** to '3' and recycle the power on the inverter.

Operation mode selection	Pr.79	1	Fixed to PU operation mode	PU operation mode
		2	Fixed to External operation mode Operation can be performed by switching between the External and NET operation mode.	External operation mode NET operation mode
		3	External/PU combined operation mode 1 Frequency command Operation panel and PU (FR-PU04/FR-PU07) setting or external signal input (multi-speed setting, across terminals 4-5 (valid when AU signal turns ON)).* Start command External signal input (terminal STF, STR)	
		4	External/PU combined operation mode 2 Frequency command External signal input (terminal 2, 4, JOG, multi-speed selection, etc.) Start command Enter from of the operation panel and and of the PU (FR-PU04/FR-PU07)	

5. Close the **AU terminal** to activate **Terminal 4** and set the **4-20mA** signal from your analogue output source to give a running frequency. Then close the **STF signal** to start the drive.

