

RESET SPEED/TORQUE REFERENCE IN MOTORISED POTENTIOMETER MODE

The aim of this program is to reset the motorised potentiometer references to zero on stop and power up. The standard PDL motorised potentiometer mode latches the current motorised potentiometer reference on stop.

Multifunction input mode 5 offers speed/torque reference control by UP (increase reference) or DOWN (decrease reference) push buttons.

UP (MFI5) is defined as normally open, DOWN (MFI6) is defined as normally closed.

MFI4 selects which reference is to be adjusted (Speed=Open & Torque=Closed).

The speed reference source (Screen I2 or I4) and/or the torque reference source (Screen I3 or I5) must be set to motorised potentiometer (MTRPOT) selection.

Adjustment is possible from minimum to maximum as follows:

Screen M4	-	MREF4	-	Minimum Speed
Screen M5	-	MREF5	-	Maximum Speed
Screen M6	-	MREF6	-	Minimum Torque
Screen M7	-	MREF7	-	Maximum Torque

By setting the minimum speed or torque to be greater than the maximum setting, reverse control may be implemented.

The adjustment rate is scaled to allow full-scale adjustment in ten seconds. On power up, the motorised potentiometer references are set to zero.

On receiving a stop signal the motorised potentiometer references are set to zero.

New Vista variables SP_Mpot_Min and SP_Mpot_Max have replaced the system variables in screens M4 and M5.

New Vista variables TQ_Mpot_Min and TQ_Mpot_Max have replaced the system variables in screens M6 and M7.

When stop is activated the Vista logic momentarily writes zero to the system variables System.Multi_Reference_4, System.Multi_Reference_5, System.Multi_Reference_6 and System.Multi_Reference_7. Otherwise the new Vista Variables are written to these system variables. In writing zero the minimum and maximum limits are set to zero which effectively resets the motorised potentiometer references to zero.