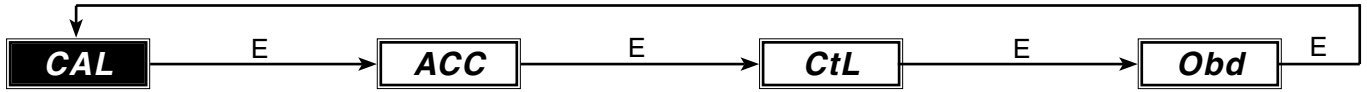


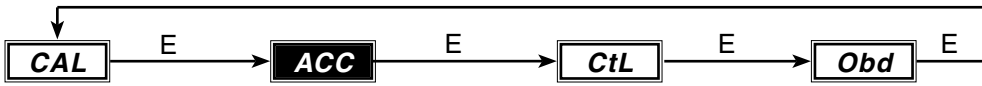
Use **SCROLL UP/SCROLL DOWN** to move through a branch. Press **ENTER** to enable a parameter (**ID** will flash). Modify the parameter's value by pressing **SCROLL UP/SCROLL DOWN**. Press **ENTER** again to lock in the value. When at a branch code (**CAL**, **ACC**, etc), pressing **ENTER** will jump to the next branch.



CAL - Mandatory Calibration Parameters

SCROLL UP	ID	NAME	VALUE	OPERATION
	HS	High Speed	5 >> 125	Motor speed in percent of Maximum. Use SCROLL UP/SCROLL DOWN to increase or decrease the speed. Full rated output is achieved for speeds between 40 and 100 at 70PF. HS cannot be set below the value for LS (See branch [SPd]).
	HA	High Acceleration	1 >> 99	Controls the rate at which the motor speed increases up to the speed set in HS . Use SCROLL UP/SCROLL DOWN to adjust. HA cannot be set below the value for LA (See branch [ACC]).
	db	Deadband	0.1 >> 5.0	The amount of control signal change in percent of span before there is a change in actuator position. Use SCROLL UP/SCROLL DOWN to adjust.
	PL	Position Low	0.0 >> 100	Stem position corresponding to the Low Control Signal (SL). This can be set at either end of the stroke. Use SCROLL UP/SCROLL DOWN to move the actuator to the desired position. At least 10% of rated stroke must separate the positions of PL and PH .
	PH	Position High	0.0 >> 100	Stem position corresponding to the High Control Signal (SH). This defines the full stroke of the equipment. Use SCROLL UP/SCROLL DOWN to move the actuator to the desired position. At least 10% of rated stroke must separate the positions of PL and PH .
	If a Milliamp control signal (Parameter [Ctl:St] = A) is used.			
	SL	Low Control Signal	0.0 >> 22	The control signal corresponding to Position Low (PL), typically - 4 mA. However, it may be any signal that is <u>3.8 mA less than SH</u> . This signal must be input from an external source such as a handheld current transmitter or the actual low signal from the controller.
	SH	High Control Signal	0.0 >> 22	The control signal corresponding to Position High (PH), typically - 20 mA. However, it may be any signal that is <u>3.8 mA greater than SL</u> . This signal must be input from an external source such as a handheld current transmitter or the actual high signal from the controller.
	If a pulse control signal (Parameter [Ctl:St] = P) is used.			
	Pd	Pulse Duration	5 >> 999	Minimum pulse time in milliseconds for the signal to remain ON in order to be recognized as a valid pulse. A long duration pulse will be interpreted as multiple single pulses.
	PI	Pulse Increment	0.1 >> 5	The incremental change of position (in percent of span) that the actuator will travel for each input pulse. The pulse duration must be at least as long as specified in PD .
	If a D size Power Module (Parameter [Ctl:dt] = d) is used.			
	dG	Gain	5 >> 50	Sets the proportional gain of the D-size power module.
SCROLL DOWN	dL	Minimum	5 >> 20	Sets the minimum speed of the D-size power module in

Use **SCROLL UP** /**SCROLL DOWN** to move through a branch. Press **ENTER** to enable a parameter (**ID** will flash). Modify the parameter's value by pressing **SCROLL UP**/**SCROLL DOWN** Press **ENTER** again to lock in the value. When at a branch code (**CAL**, **ACC**, etc), pressing **ENTER** will jump to the next branch.



ACC - Adjusts the response of the actuator to changes in control signal.

SCROLL UP	ID	NAME	VALUE	OPERATION
	LA	Low Acceleration	1 >> 99	The acceleration rate used when the signal is less than the breakpoint, Ab. Use SCROLL UP / SCROLL DOWN to adjust. LA cannot be set above HA.
	Ab	Acceleration Breakpoint	0.1 >> 5	The point in percent of signal change that determines whether the actuator will accelerate at the value in parameter LA or in parameter HA. If the signal change is less than the breakpoint, the value LA is used. If greater , the value HA (Branch [CAL]) is used. Use SCROLL UP / SCROLL DOWN to adjust.



CtL - Control Parameters

SCROLL UP	ID	NAME	VALUE	OPERATION
	bt 's	Bumpless Transfer	On, OFF	Preset to Off. Upon power on or switching to the Auto mode, the actuator position and the control signal must be within 5% for the actuator to respond. Outside of this range, an E-bt error will flash. Use SCROLL UP / SCROLL DOWN to adjust.
	PC	Passcode Defined	User	When activated, access to the Setup mode is restricted by requiring entry of the correct <i>Passcode</i> . Entering any three digit numeric code becomes the current <i>passcode</i> . Deactivate by entering a code of 000.
	FS	Failsafe	IP, PL, PH, OFF	Upon loss of the control signal (less that 2.5 mA). the actuator may be set to: IP Lock-In-Place, PL - move to Position Low, PH - move to Position High, or OFF override this feature (for use with 0-20 mA control signals). Use SCROLL UP / SCROLL DOWN to select.
	St	Signal Type	A, P	Configures the actuator for input signal type: A - Analog (usually 4-20 mA), P - Pulse. Use SCROLL UP / SCROLL DOWN to adjust.
	dt	Power Module	b, c, d	Configures the actuator for power module type: the letter indicates the size.



Obd - Parameters required to operate certain auxiliary boards.

SCROLL UP	ID	NAME	VALUE	OPERATION
	r1	Relay 1	0>>100	Sets Relay 1's ON point in percent of stroke. For actuator positions below the value, the relay is energized (indicator LED is illuminated). Use SCROLL UP / SCROLL DOWN to adjust.
	r2	Relay 2	0>>100	Sets Relay 2's ON point in percent of stroke. For actuator positions above the value, the relay is energized (indicator LED is illuminated). Use SCROLL UP / SCROLL DOWN to adjust.
	SG	Surge Breakpoint	10>>100	The percentage change in control signal to activate the surge high speed override.