H100 PID & Pump Parameter Settings						
Group	**No**	**Description**	**Default**	**Setting options**	**Recommended Setting**	**Notes**
PID	1	PID Selection(enable PID)	No	Yes/No	1 - Yes	Enables PID
PID	50	PID Unit Selection	%	0-40	Depends on the system requirement	Unit of measure. Setting 2 is for PSI.
PID	53	PID Unit %	100%	0.1-300%	Depends on the system requirement	Enter the max value of transducer (e.g. 0-100psi you would enter 100)
PID	10	PID Reference selection	Keypad	0-6	0- Keypad (Default)	Only change if the set point will not come from keypad
PID	11	PID Reference 1	50.00%	0-100%	Depends on the system requirement	Set point(what drive will maintain)
PID	20	PID Feedback Source	V1	0-9	Depends on the system requirement	Set to location the feedback device is connected to
AP1	8	PID Sleep Frequency	0	0.5-60	Depends on the system requirement	Speed drive will go to sleep at
AP1	7	PID Sleep DT	20	0-6000	5 sec	Amount of time drive waits at sleep level before it shuts off
AP1	10	PID Wakeup Level Deviation	20	0-max	Typically set at 10 PSI	Max equals setting of PID.53. **This is the deviation level from the set-point that the drive wakes back up at**
AP1	9	PID Wakeup DT	10	0-6000	Usually less than 5 seconds	Amount of time drive stays at or below the wakeup level before coming on

Additional Functions and Notes

If Thrust speed is needed for Submersible pump Application you must do as follows:						
ADV	60	Xcel change Freq	0Hz	0-60 Hz	30 Hz	Set to 30Hz or higher
BAS	70	Acceleration Time 1	20 sec	0-600 Sec	1 second	Motor acceleration time to Thrust speed
BAS	71	Deceleration Time 1	20 sec	0-600 Sec	1 second	Motor deceleration time from Thrust speed to 0 Hz

If the PID loop is not responsive enough or needs additional tuning:						
PID	25	PID P-Gain 1	50%	0-max Hz	See Comment	Adjust only if the I-Time adjustment is not providing desired results.
PID	26	PID I-Time 1	10.0 S	0 - 600 Sec	2 seconds	Decreasing this time will make the PID loop more responsive.

Useful PID Monitors						
PID	4	PID Setpoint Monitor	Current Setpoint	Monitor Only	Depends on the system	This is the actual scaled PID setpoint value.
PID	5	PID Feedback Monitor	0- PID.53	Monitor Only	Depends on the system	This is the actual feedback the drive is reading.
CNF	22	Monitor Line-2	2 (Output Current)	0-25	18 (PID Reference Value)	This pins the PID setpoint to the monitor menu
CNF	23	Monitor Line-3	3 (Output Voltage)	0-25	19 (PID Feedback Value)	This pins the PID feedback to the monitor menu

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