Parameter list PID500:

Coil Status (Read / Write Bit)

Coil No	*Name*	*Minimum*	*Maximum*	*Para type*
1	Unit	**variable_name**	**Value**	R / W
		Degree C	0	
		Degree F	1	
2	Reverse scaling	**variable_name**	**Value**	R / W
		YES	1	
		NO	0	
3	Autotune	**variable_name**	**Value**	R / W
		Off	1	
		On	0	
4	Relay1 mode	**variable_name**	**Value**	R / W
		Forward	0	
		Reverse	4	
5	ARW	**variable_name**	**Value**	R / W
		Auto	0	
		Manual	1	
6	Set2 abs / dev	**variable_name**	**Value**	R / W
		Absolute	0	
		Deviation	10	
7	Latch 1	**variable_name**	**Value**	R / W
		Off	8	
		On	0	
8	Hold 1	**variable_name**	**Value**	R / W
		Off	10	
		On	0	
9	Alarm 1	**variable_name**	**Value**	R / W
		Energize	0	
		De-energize	20	
10	Annunciator 1	**variable_name**	**Value**	R / W
		Off	0	
		On	40	
11	SSR	**variable_name**	**Value**	R / W
		NO	0	
		YES	2	
12	Sensor error	**variable_name**	**Value**	R / W
		Low	0	
		High	40	
13	Latch 2	**variable_name**	**Value**	R / W
		Off	8	
		On	0	
14	Hold 2	**variable_name**	**Value**	R / W

		Off	10	
		On	0	
15	Alarm 2	**variable_name**	**Value**	R / W
		Energize	0	
		De-energize	20	
16	Annunciator 2	**variable_name**	**Value**	R / W
		Off	0	
		On	40	
17	Heat cool	**variable_name**	**Value**	R / W
		YES	10	
		NO	0	
18	Main output	**variable_name**	**Value**	R / W
		Relay 1/ Aout	0	
		Relay	1	
19	Sensor open	**variable_name**	**Value**	R / W
		Auto	0	
		Manual	1	
20	Standby	**variable_name**	**Value**	R / W
		NO	0	
		YES	1	
21	Program access	**variable_name**	**Value**	R / W
		Level	0	
		Online	1	
22	CT - Alarm Latch	**variable_name**	**Value**	R / W
		Off	4	
		On	0	
23	Set point selection	**variable_name**	**Value**	R / W
		Local	0	
		Remote	1	
24	Mot - control	**variable_name**	**Value**	R / W
		YES	1	
		NO	0	
25	Mot - Mode	**variable_name**	**Value**	R / W
		Bounded	0	
		Boundless	2	
26	Zone	**variable_name**	**Value**	R / W
		YES	1	
		NO	0	
27	Alarm1 ack	**variable_name**	**Value**	R / W
		NO	0	
		YES	1	
28	Alarm2 ack	**variable_name**	**Value**	R / W
		NO	0	
		YES	1	
29	Profile	**variable_name**	**Value**	R / W
		On	1	
		Off	0	

Parameter list PID500:

Input Status (Read Only)

Input Status Coil No	*Name*	*Minimum*	*Maximum*	*Para type*
1	Over range	**variable_name**	**Value**	R
		YES	10	
		NO	0	
2	Under range	**variable_name**	**Value**	R
		YES	20	
		NO	0	
3	Relay2 status	**variable_name**	**Value**	R
		Off	0	
		On	4	
4	Relay3 status	**variable_name**	**Value**	R
		Off	0	
		On	8	

Parameter list PID500:

Internal resolution (*) -
0 - No resolution
1 - TC / RTD - fixed 1 degree
AIN - as per resolution selected
2 - TC / RTD - fixed 0.1 degree
AIN - as per resolution selected

Holding Registers (Read / Write Register)

Holding Register No	Register Address	*Register Description*	*Name*	*Minimum*	*Maximum*	*Internal Resolution*	*Para type*
1	1	1 – Data	Lower display option	**variable_name**	**Value**	0	R / W
	2	2 – RESL		Set1	0		
				Set2	1		
				Set3	2		
				Auto tune	3		
				Hand percentage	4		
				PB - Heat	5		
				Integral	6		
				Derivative	7		
				Manual Reset	8		
				PB - Cool	9		
				Ramp Set point	A		
				Perc O/P	B		
				Elapsed Soak time	C		

				Degree C	D		
				Degree F	E		
				Alarm 1 Ack	F		
				Alarm 2 Ack	10		
				CT – current	11		
				Remote Set point	12		
				Profile status	13		
				Run profile no	14		
				Profile run step	15		
				Profile phase time	16		
				Profile elapsed time	17		
				Auxillary Output	18		
				Target temp	19		
				Ramp time	1A		
				Blank	1B		
2	3	1 – xxx1111	Input Type	**variable_name**	**Value**	0	R / W
	4	2 – RESL		J	0		
				K	1		
				T	2		
				R	3		
				S	4		
				C	5		
				E	6		
				B	7		
				N	8		
				L	9		
				U	0A		
				W	0B		
				PLATINEL II	0C		
				PT100	0D		
				mV Linear	0E		

				VOLTAGE	0F		
				CURRENT	10		
3	5	1 – x11xxxxx	Resolution	**variable_name**	**Value**	0	R / W
	6	2 – RESL					
				1C	0		
				0.1C	20		
				0.01C	40		
				0.001C	60		
4	7	1 – Data	Display value scaling point	-1999	9999	1 / 2 *	R / W
	8	2 – RESL					
5	9	1 – Data	Input scaling point low	-5	56	2	R / W
	10	2 – RESL					
6	11	1 – Data	Input scaling point high	-5	56	2	R / W
	12	2 – RESL					
7	13	1 – Data	Set point high limit	-1999	9999	1*	R / W
	14	2 – RESL					
8	15	1 – Data	Set point low limit	-1999	9999	1*	R / W
	16	2 – RESL					
9	17	1 – Data	Power Low				R / W
	18	2 – RESL					
10	19	1 – Data	Power High				R / W
	20	2 – RESL					
11	21	1 – Data	Zone set point 1	-1999	9999	2*	R / W
	22	2 – RESL					
12	23	1 – Data	Zone set point 2	-1999	9999	2*	R / W
	24	2 – RESL					
13	25	1 – Data	Zone set point 3	-1999	9999	2*	R / W
	26	2 – RESL					
14	27	1 – Data	Zone set point 4	-1999	9999	2*	R / W
	28	2 – RESL					
15	29	1 – Data	Zone Pb - Main1	0	4000	2*	R / W

	30	2 – RESL					
16	31	1 – Data	Zone Pb - Main2	0	4000	2*	R / W
	32	2 – RESL					
17	33	1 – Data	Zone Pb - Main3	0	4000	2*	R / W
	34	2 – RESL					
18	35	1 – Data	Zone Pb - Main4	0	4000	2*	R / W
	36	2 – RESL					
19	37	1 – Data	Zone integral 1	0	60	0	R / W
	38	2 – RESL					
20	39	1 – Data	Zone integral 2	0	60	0	R / W
	40	2 – RESL					
21	41	1 – Data	Zone integral 3	0	60	0	R / W
	42	2 – RESL					
22	43	1 – Data	Zone integral 4	0	60	0	R / W
	44	2 – RESL					
23	45	1 – Data	Zone Derivative 1	0	60	0	R / W
	46	2 – RESL					
24	47	1 – Data	Zone Derivative 2	0	60	0	R / W
	48	2 – RESL					
25	49	1 – Data	Zone Derivative 3	0	60	0	R / W
	50	2 – RESL					
26	51	1 – Data	Zone Derivative 4	0	60	0	R / W
	52	2 – RESL					
27	53	1 – Data	Hysteresis 1	0	999	2*	R / W
	54	2 – RESL					
28	55	1 – Data	Hysteresis bias 1	-99	99	2*	R / W
	56	2 – RESL					
29	57	1 – Data	Timer	0	99.9	1	R / W
	58	2 – RESL					
30	59	1 – Data	DAC	0.5	5	1	R / W
	60	2 – RESL					

31	61	1 – Data	Cycle time	**variable_name**	**Value**	0	R / W
	62	2 – RESL		User	1		
				User fixed	2		
				Auto tune	0		
32	63	1 – Data	Tune percentage	(P.AU = 74)	100	0	R / W
	64	2 – RESL					
33	65	1 – Data	Cycle time - user	0.1	100	1	R / W
	66	2 – RESL					
34	67	1 – Data	ARW%	20	200	1	R / W
	68	2 – RESL					
35	69	1 – Data	Manual reset	-99.9	99.9	2*	R / W
	70	2 – RESL					
36	71	1 – Data	Set 2 Mode	**variable_name**	**Value**	0	R / W
	72	2 – RESL		None	0		
				Forward	2		
				Reverse	4		
				Alarm	6		
37	73	1 – Data	Pb - cool	0	4000	2*	R / W
	74	2 – RESL					
38	75	1 – Data	Cycle time - cool	0.1	100	1	R / W
	76	2 – RESL					
39	77	1 – Data	Hysteresis 2	0.001	999	2*	R / W
	78	2 – RESL					
40	79	1 – Data	Hysteresis bias 2	-99	99	2*	R / W
	80	2 – RESL					
41	81	1 – Data	Alarm mode 1	**variable_name**	**Value**	0	R / W
	82	2 – RESL		Off	0		
				Deviation High	1		
				Deviation Low	2		
				Deviation Band	3		
				Full scale High	4		

				Full scale Low	5		
				Heater break	6		
42	83	1 – Data	Analog low	-1999	9999	1*	R / W
	84	2 – RESL					
43	85	1 – Data	Analog high	-1999	9999	1*	R / W
	86	2 – RESL					
44	87	1 – Data	Alarm mode 2	**variable_name**	**Value**	0	R / W
	88	2 – RESL		Off	0		
				Deviation High	1		
				Deviation Low	2		
				Deviation Band	3		
				Full scale High	4		
				Full scale Low	5		
				Sensor break	6		
45	89	1 – Data	Hysteresis 3	0.001	999	2*	R / W
	90	2 – RESL					
46	91	1 – Data	Hysteresis bias 3	-99	99	2*	R / W
	92	2 – RESL					
47	93	1 – Data	SST (0=OFF)	0	999	0	R / W
	94	2 – RESL					
48	95	1 – Data	Hand % (-101 = OFF)	-101	100	0	R / W
	96	2 – RESL					
49	97	1 – Data	Ramp mode	**variable_name**	**Value**	0	R / W
	98	2 – RESL		On	0		
				Off	4		
				Hold	8		
50	99	1 – Data	Ramp rate	0.001	9999	1*	R / W
	100	2 – RESL					
51	101	1 – Data	Soak time	0	1440	0	R / W
	102	2 – RESL					
52	103	1 – Data	PV Bias	-99	99	2*	R / W

	104	2 – RESL					
53	105	1 – Data	FTC	0=Off	99	0	R / W
	106	2 – RESL					
54	107	1 – Data	Power dampening (0=OFF)	0	99	0	R / W
	108	2 – RESL					
55	109	1 – Data	Rounding increment	0.001	100	2*	R / W
	110	2 – RESL					
56	111	1 – Data	User id	0	9999	0	R / W
	112	2 – RESL					
57	113	1 – Data	Access - Level 0	**variable_name**	**Value**	0	R / W
	114	2 – RESL		Unlock	0		
				Read	2		
				Lock	4		
58	115	1 – Data	Access - Level 1	**variable_name**	**Value**	0	R / W
	116	2 – RESL		Unlock	0		
				Read	8		
				Lock	10		
59	117	1 – Data	Access - Level 2	**variable_name**	**Value**	0	R / W
	118	2 – RESL		Unlock	0		
				Read	20		
				Lock	40		
60	119	1 – Data	Access - Level 3	**variable_name**	**Value**	0	R / W
	120	2 – RESL		Unlock	0		
				Read	1		
				Lock	2		
61	121	1 – Data	Access - Level 4	**variable_name**	**Value**	0	R / W
	122	2 – RESL		Unlock	0		
				Read	4		
				Lock	8		
62	123	1 – Data	Access - Level 5	**variable_name**	**Value**	0	R / W
	124	2 – RESL		Unlock	0		

				Read	10		
				Lock	20		
63	125	1 – Data	Access - Level 9	**variable_name**	**Value**	0	R / W
	126	2 – RESL		Unlock	0		
				Read	40		
				Lock	80		
64	127	1 – Data	Access - Level 10	**variable_name**	**Value**	0	R / W
	128	2 – RESL		Unlock	0		
				Read	40		
				Lock	80		
65	129	1 – Data	Access - Set 1	**variable_name**	**Value**	0	R / W
	130	2 – RESL		Unlock	0		
				Read	1		
				Lock	2		
66	131	1 – Data	Access - Set 2	**variable_name**	**Value**	0	R / W
	132	2 – RESL		Unlock	0		
				Read	10		
				Lock	20		
67	133	1 – Data	Access – Set 3	**variable_name**	**Value**	0	R / W
	134	2 – RESL		Unlock	0		
				Read	4		
				Lock	8		
68	135	1 – Data	Access - Auto tune	**variable_name**	**Value**	0	R / W
	136	2 – RESL		Unlock	0		
				Read	40		
				Lock	80		
69	137	1 – Data	Access - Hand %	**variable_name**	**Value**	0	R / W
	138	2 – RESL		Unlock	0		
				Read	1		
				Lock	2		
70	139	1 – Data	Access - Pb Main	**variable_name**	**Value**	0	R / W

	140	2 – RESL		Unlock	0		
				Read	4		
				Lock	8		
71	141	1 – Data	Access - I Main	**variable_name**	**Value**	0	R / W
	142	2 – RESL		Unlock	0		
				Read	10		
				Lock	20		
72	143	1 – Data	Access - D Main	**variable_name**	**Value**	0	R / W
	144	2 – RESL		Unlock	0		
				Read	40		
				Lock	80		
73	145	1 – Data	Access - manual reset	**variable_name**	**Value**	0	R / W
	146	2 – RESL		Unlock	0		
				Read	1		
				Lock	2		
74	147	1 – Data	Access - Pb Aux	**variable_name**	**Value**	0	R / W
	148	2 – RESL		Unlock	0		
				Read	4		
				Lock	8		
75	149	1 – Data	Access–Remote/mot	**variable_name**	**Value**	0	R / W
	150	2 – RESL		Unlock	0		
				Read	1		
				Lock	2		
76	151	1 – Data	CT - Display scaling high	0.1	999.9	1	R / W
	152	2 – RESL					
77	153	1 – Data	CT - Alarm mode	**variable_name**	**Value**	0	R / W
	154	2 – RESL		Off	0		
				LA	1		
				HA	2		
				BAND	3		
78	155	1 – Data	CT - Hysteresis	0.1	99.9	1	R / W

	156	2 – RESL					
79	157	1 – Data	CT - LA	0.1	999.9	1	R / W
	158	2 – RESL					
80	159	1 – Data	CT - HA	0.1	999.9	1	R / W
	160	2 – RESL					
81	161	1 – Data	RemSP - Display scaling low	-1999	9999	1*	R / W
	162	2 – RESL					
82	163	1 – Data	RemSP - Display scaling High	-1999	9999	1*	R / W
	164	2 – RESL					
83	165	1 – Data	RemSP - input scaling low	0	20	2	R / W
	166	2 – RESL					
84	167	1 – Data	RemSP - Input scaling High	0	20	2	R / W
	168	2 – RESL					
85	169	1 – Data	RemSP - FTC	0	99	0	R / W
	170	2 – RESL					
86	171	1 – Data	Valve travel time	0.1	240	1	R / W
	172	2 – RESL					
87	173	1 – Data	Valve inertia time	0	20	1	R / W
	174	2 – RESL					
88	175	1 – Data	Valve backlash time	0.1	20	1	R / W
	176	2 – RESL					
89	177	1 – Data	Output pulse min on time	0.1	100	1	R / W
	178	2 – RESL					
90	179	1 – Data	Motor mode	**variable_name**	**Value**	0	R / W
	180	2 – RESL		Run	0		
				Rest	4		
				Up	8		
				Down	0C		
91	181	1 – Data	Motor Hyst	0.1	9.9	1	R / W
	182	2 – RESL					

92	183	1 – Data	Display scaling low	-1999	9999	2*	R / W
	184	2 – RESL					
93	185	1 - LSB	Set1	-1999	9999	2*	R / W
	186	2 – MSB					
	187	3 – RESL					
94	188	1 - LSB	Set 2	-1999	9999	2*	R / W
	189	2 – MSB					
	190	3 – RESL					
95	191	1 - LSB	Set 3	-1999	9999	2*	R / W
	192	2 – MSB					
	193	3 – RESL					

Modified
Added

Parameter list PID500:

Internal resolution (*) -
0 - No resolution
1 - TC / RTD - fixed 1 degree
AIN - as per resolution selected
2 - TC / RTD - fixed 0.1 degree
AIN - as per resolution selected

Input Registers (Read Only Register)

Input Register No	*Register Address*	*Register Description*	*Name*	*Minimum*	*Maximum*	*Internal Resolution*	*Para type*
1	1	1 – Data	Main Status	**variable_name**	**Value**	0	R
	2	2 – RESL		Off	0		
				On	1		
				Not applicable	2		
2	3	1 – Data	Elapsed soak time	0	9999	0	R
	4	2 – RESL					
3	5	1 – Data	Output percentage	0	100	1	R
	6	2 – RESL					
4	7	1 – LSB	Process Value	-1999	9999	2*	R
	8	2 – MSB					
	9	3 – RESL					

5	10	1 – LSB	Ramp set point	-1999	9999	2*	R
	11	2 – MSB					
	12	3 – RESL					