

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)

<i>Input Status Coil No</i>	<i>Name</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Para type</i>
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)

<i>Holding Register No</i>	<i>Register Address</i>	<i>Register Description</i>	<i>Name</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Internal Resolution</i>	<i>Para type</i>
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


✓ + ▲
Level Lock level Lock level Lock level Change New Pas-
LEUL L- 0 L- 1 L- 2 L- 5 CHNG NEY

Lockout Module

LEULS

Baud Rate Communication Station No Parity Stop Bit
bRUD Addn PArn StOP

Communication Module

 Appearance of all shaded menus dependent on selection of other parameters.
Refer programming for further details.

Functions	Key press
To enter or exit program mode	▲ + ▼ together for 3 seconds
To change levels	✓ + ▲ / ▼ to increase or decrease the level number.
To view function on the same level and to display the current option.	▲ or ▼ key once to view the next / previous function.
To increase or decrease the value of a particular function.	✓ + ▲ to increase and ✓ + ▼ to decrease the function value.
To view and change parameters online	⊙ key to view the parameter and ⊙ + ▲ / ▼ to scroll through the parameters. Press ✓ + ▲ / ▼ to change parameter value.

NOTE: The unit will autoexit program mode after 30 seconds of inactivity.

INDICATIONS AND DISPLAY

1	Temp.Process-value (PV)	Displays the processed temperature value.
2	Humidity Process- value(PV)	Displays the processed humidity value.
3	OUT1	Indicates the status of Temp. control output(relay 1).
4	OUT2	Indicates the status of Humidity Control output(relay 3).
5	AT	Indication for Tuning is in progress.
6	AL1	Indicates the status of Alarm output 1(relay 2).
7	AL2	Indicates the status of Alarm output 2(relay 4).
8	⇌	Indicates Communication is in progress.
9	°C/°F	Temperature Unit
10	%RH	Humidity Unit

UNIT	Temperature unit	°C / °F	—	°C
ESP H	Temp.set point high limit	Set point low limit to 850.	—	850
ESP L	Temp.set point Low limit	-100 to Set point high limit.	—	-100
EFEC	Filter Time constant	OFF, 1 to 99 seconds	—	1
EDBS	Temp.Display Bias(DSP offset)	-99.9 to +99.9	—	0.0
EUNE	Auto Tune	St/At/Adt/ OFF	Pb>0 (PID Control)	OFF
EUNE	Tune Percentage	P.AU / P.75 to P.100	Tune=AT,ST, ADT	P.AU
RAIN	Relay 1 Mode	PE / Fd	—	PE
P-LO	Output power lower limit	0% to o/p power high limit	PID control	0

