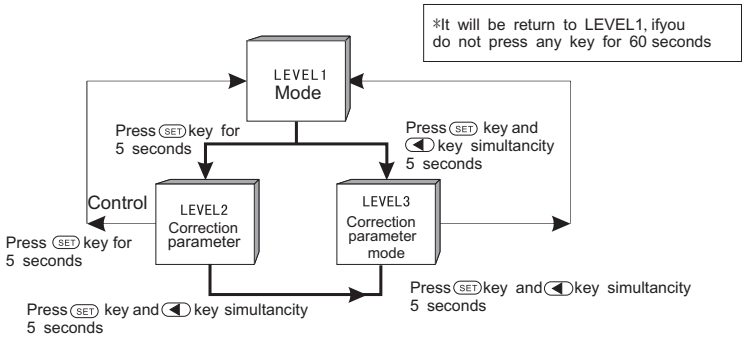


LEVEL1

POWER ON → Self - diagnostic →

| | |
|---|---|
| InP / Y | Input type |
| 0 / 400 | Input range |
| 25 / 0 | PV/SV value display (setting SV value) |
| oUt / 0.0 | Output display |
| At / 0 | Auto tuning<br>1:ATon<br>2:AToff |
| AL1 / 5 | Alarm1 set |
| AL2 / 0 | Alarm1 set |
| GAP / 0.0 | Cooling<br>SV1=SV+GAP<br>(Only dual output) |
| rAP / 0.0 | Ramp temperature set<br>RTM=0, ramp off |
| rt2 / 0.0 | Ramp time set<br>RTM=0, ramp off |

Rress set 5 sec → LEVEL2

LEVEL2 — Press SET key for 5 seconds

| | |
|---|---|
| P / 3 | Proportion band of group1(%)<br>P=0 is ON/OFF |
| I / 200 | Integral1 time(s)<br>I=0 is OFF |
| d / 10 | Differenticl coefficient1 time(s)<br>D=0 is OFF |
| oUd / 0 | 0:heating<br>1:colling |
| HYS / 1 | Output1 hystersis set |
| CYt / 0 10 | Working cycle of group1(s)<br>0:mA, 1:SSR, others are relay output |
| HY1 / 1 | Alarm1 hystersis set |
| Ad1 / 000 | Alarm1 mode set |
| HY2 / 1 | Alarm2 hystersis set |
| Ad2 / 000 | Alarm2 mode set |
| P1 / 10 | Proportion band of group<br>P1=0 is ON/OFF |
| I1 / 120.0 | Integral2 time(s)<br>I1=0 is OFF |
| d1 / 30.0 | Differenticl coefficient2 time(s)<br>D1=0 is OFF |
| Ct1 / 004 | Working cycle of group2(s)<br>0:mA, 1:SSR, others are relay output |
| oUL / 0.0 | Output low limit |
| oUH / 100.0 | Output high limit |
| 2An / 0 | 0:manual enable<br>1:manual inhibit |
| LCK / 000 | DATA LOCK<br>000:can modify all parameters<br>010:LEVEL2, LEVEL3<br>all parameters cant be modified |

Set+◀ → LEVEL3

LEVEL3 — Press SET key and ◀ key simultancity 5 seconds

| | |
|---|---|
| InP / Y | Input type set please refer to application example1 |
| LSP / 0 | Lower limit for sv |
| USP / 400 | Upper limit for sv |
| AnL / 0.0 | Input zero adjustment |
| AnH / 100.0 | Input full- scale adjustment |
| CF / 0 | 0:°C<br>1:°F |
| SFt / 0-99 | Input filter(factory setting is 70) |
| dP / 0000 | Input(for analog)decimal set |
| CLo / 0.00 | Output zero adjustment |
| CHo / 100.0 | Output span adjustment |
| tC / 25.0 | Factory calibration only |
| YC / 400.0 | Factory calibration only |
| trL / 0 | Transmission output range lower limit setting |
| trH / 400 | Transmission output range upper limit setting |
| PiS / 0 | Temperature correction(main input quantities correction)the decimal point and synchronized |
| bAd / 1 | Bandrate<br>1:9600<br>2:19200 |
| Add / 0-30 | Communication address |
| toP / 200 | Generated by AT |
| Uo / 20.0 | Generated by AT |
| Srt / 0 | Hightest temperature for-de humidity SKT=0 function disable |
| LMo / 0.0 | Output percencage for de-humdity LMO=0 function disable |
| rSL / 0 | When slope, SV dynamic demenst ration 0:YES 1:NO |
| CL1 / 0.0 | Auxiliaty control out2 current output full-scale |
| CH1 / 100.0 | Auxiliaty control out2 current output regulation |
| tH / 000 | Auxiliaty control out2 for function choose<br>0:OUT2 as cokl hot mixsure control<br>1:OUT2 as PV transic output<br>2:OUT2 as SV transic output |

Set+◀ → LEVEL1

| Modbus Mode Protocol Address Table | | | | |
|---|---|---|---|---|
| Name | Hex | Decimal | Byte | Act |
| SV | 00H | 0 | 3 | R/W |
| AT | 03H | 3 | 1 | R/W |
| AL1 | 04H | 4 | 3 | R/W |
| AL2 | 08H | 8 | 3 | R/W |
| AL3 | 0CH | 12 | 3 | R/W |
| ADD | 72H | 114 | 1 | R/W |
| P | 10H | 16 | 3 | R/W |
| I | 14H | 20 | 3 | R/W |
| D | 18H | 24 | 3 | R/W |
| OUD | 1BH | 27 | 1 | R/W |
| HYS | 1CH | 28 | 3 | R/W |
| CYT | 1FH | 31 | 1 | R/W |
| HY1 | 20H | 32 | 3 | R/W |
| AD1 | 23H | 35 | 1 | R/W |
| HY2 | 24H | 36 | 3 | R/W |
| AD2 | 27H | 39 | 1 | R/W |
| HY3 | 28H | 40 | 3 | R/W |
| AD3 | 2BH | 43 | 1 | R/W |
| PMA | 2CH | 44 | 3 | R/W |
| K0 | 30H | 48 | 3 | R/W |
| OUL | 34H | 52 | 3 | R/W |
| OUH | 38H | 56 | 3 | R/W |
| SIW | 3CH | 60 | 3 | R/W |
| LOCK | 3DH | 61 | 1 | R/W |
| INP | 3EH | 62 | 1 | R/W |
| LSP | 40H | 64 | 3 | R/W |
| USP | 44H | 68 | 3 | R/W |
| CF | 50H | 80 | 1 | R/W |
| SFT | 51H | 81 | 1 | R/W |
| DP | 52H | 82 | 1 | R/W |
| TH | 57H | 87 | 1 | R/W |
| PVOS | 6CH | 108 | 3 | R/W |
| BAUD | 70H | 112 | 1 | R/W |
| TOP | 74H | 116 | 3 | R/W |
| U0 | 78H | 120 | 3 | R/W |
| DSP2 | 7CH | 124 | 1 | R/W |
| INP2 | 7EH | 126 | 1 | R/W |
| LSP2 | 80H | 128 | 3 | R/W |
| USP2 | 84H | 132 | 3 | R/W |
| PVS2 | 88H | 136 | 3 | R/W |
| TOSV | 8BH | 139 | 1 | R/W |
| M/A | 61H | 97 | 1 | R/W |
| MV | 62H | 98 | 3 | R/W |
| PV1 | C3H | 195 | 3 | R/W |