HLDC-15A
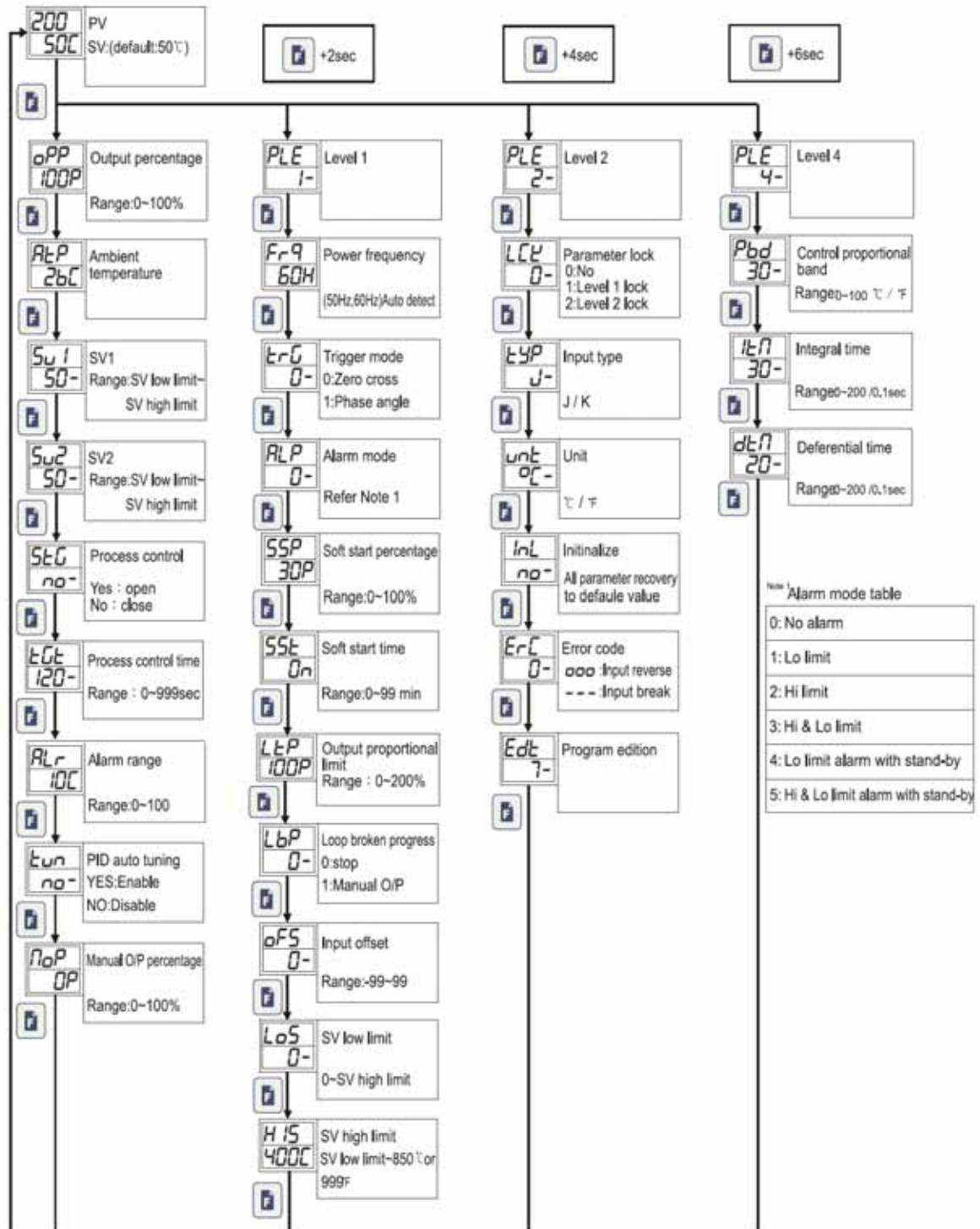

(1) PV:①normal mode : present value.
　　②parameter mode : parameter name.

(2) SV:①normal mode :Setting value.
　　②parameter mode : parameter value.
　　③manual output mode : manual output%.

(3) UNIT : Temperature or parameter unit

(4) F Key : parameter level and parameter select key.

(5) Set key : Set enable and digital shift key.

(6) Decrement key : Setting number decrease.

(7) Increment key : Setting number increase.

(8) Auto/Manual mode key.

(9) Output indicator : Light up when instrument output.

(10)Alarm indicator : Light up when alarm happen.

(11)Fuse 1 indicator : Light up when fuse 1 break.

(12)Fuse 2 indicator : Light up when fuse 2 break.

(13)Manual mode indicator : Light up when instrument is in manual mode.

(14)Sensor input indicator : Light up when K type was selected.

(15)PID tuning indicator : In PID tuning progress indicator flash.

(16)SV2 indicator Execute SV2.

(17)Power switch.

1-4-2 Operation   modes

TC5E divide into Main mode and parameter mode. In main mode, press▤could entry parameter mode.

Main mode : Controller display PV and SV use ▲▼◌for SV modification.

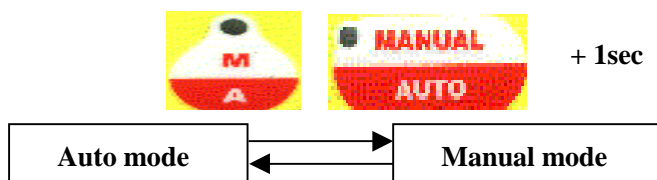Parameter mode: Controller display parameter name and its value. use ▲▼◌ for value modification

| 200 | PV |
| 50C | SV:(default:50℃) |

▤ +2sec   ▤ +4sec   ▤ +6sec

Column 1

oPP / IOOP	Output percentage / Range:0~100%
AtP / 26C	Ambient temperature
Su1 / 50-	SV1 / Range:SV low limit~ SV high limit
Su2 / 50-	SV2 / Range:SV low limit~ SV high limit
StG / no-	Process control / Yes : open / No : close
tGt / 120-	Process control time / Range : 0~999sec
ALr / 10C	Alarm range / Range:0~100
tun / no-	PID auto tuning / YES:Enable / NO:Disable
NoP / OP	Manual O/P percentage / Range:0~100%

Column 2 — PLE 1- Level 1

Fr9 / 60H	Power frequency / (50Hz,60Hz)Auto detect
trG / 0-	Trigger mode / 0:Zero cross / 1:Phase angle
ALP / 0-	Alarm mode / Refer Note 1
SSP / 30P	Soft start percentage / Range:0~100%
SSt / On	Soft start time / Range:0~99 min
LtP / IOOP	Output proportional limit / Range : 0~200%
LbP / 0-	Loop broken progress / 0:stop / 1:Manual O/P
oFS / 0-	Input offset / Range:-99~99
LoS / 0-	SV low limit / 0~SV high limit
H15 / 400C	SV high limit / SV low limit~850℃ or 999F

Column 3 — PLE 2- Level 2

LCV / 0-	Parameter lock / 0:No / 1:Level 1 lock / 2:Level 2 lock
tYP / J-	Input type / J / K
unt / oC-	Unit / ℃ / ℉
InL / no-	Initialize / All parameter recovery to defaule value
ErC / 0-	Error code / ooo :Input reverse / --- :Input break
Edt / 7-	Program edition

Column 4 — PLE 4- Level 4

Pbd / 30-	Control proportional band / Range:0~100 ℃ / ℉
ItN / 30-	Integral time / Range:0~200 /0.1sec
dtN / 20-	Deferential time / Range:0~200 /0.1sec

Note 1 Alarm mode table

0: No alarm
1: Lo limit
2: Hi limit
3: Hi & Lo limit
4: Lo limit alarm with stand-by
5: Hi & Lo limit alarm with stand-by

1-4-3 Control modes

Auto mode The instrument make temperature control.

Manual mode : The instrument follow parameter $\Pi o P$ and make output.

（UNIT field display "P"）

manual /auto mode change ：

 + 1sec
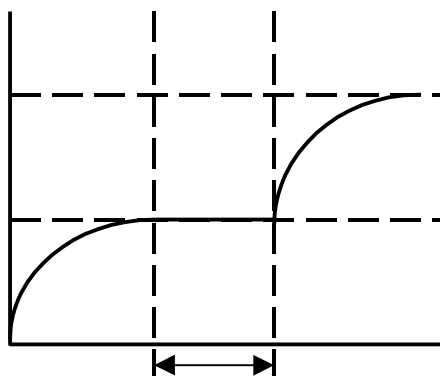
| Auto mode | ←→ | Manual mode |

Exchange SV1 and SV2

≡ + ▲+3sec ： SV1 temperature control.

≡ + ▼+3sec ： SV2temperatyre control.

※ Execute SV2temperature control indicator flash.

（Refer 1-3-1faceplate description）

1-4-4   process control

Process control time

1-4-5 Error message

⑴－－－： Input break.

⑵   ： Input reverse

1-4-6   Wiring

SENSOR
Jor k type
0-850℃
32-999℉

① TC +
② TC -
③ NC

HEATER
MAX
20A/250V
④ LOAD1
⑤ LOAD2

POWER
220Vac±10%
50/60Hz
⑥ ACC
⑦ ACC220

⑧ FGND