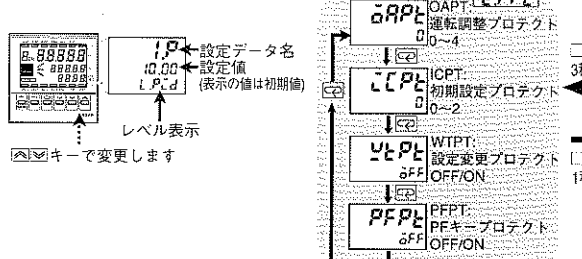


設定データ名と設定値の表示



運転調整プロテクト

運転調整エリアでのキー操作を制限する

Table with 4 columns: 設定値 (Setting Value), 運転レベル (Operation Level), プログラム設定レベル (Program Setting Level), and 警報組設定レベル (Alarm Group Setting Level). It details the permissions for various operations like '許可' (Allow) and '禁止' (Prohibit) across different levels.

※1 プログラムNo.は禁止
許可:制限なし (表示可能、変更可能、またはレベル移行可能を示す)
制限:一部制限 (表示のみ可能、変更禁止を示す)
禁止:全て制限 (表示禁止、またはレベル移行禁止を示す)

初期設定プロテクト

初期設定エリアの移行を制限する

Table with 3 columns: 設定値 (Setting Value), 入力初期設定レベル移行 (Input Initial Setting Level Transition), and 制御初期設定/制御初期設定2/警報組設定/表示調整/通信設定レベル移行 (Control Initial Setting/Control Initial Setting 2/Alarm Group Setting/Display Adjustment/Communication Setting Level Transition).

設定変更プロテクト

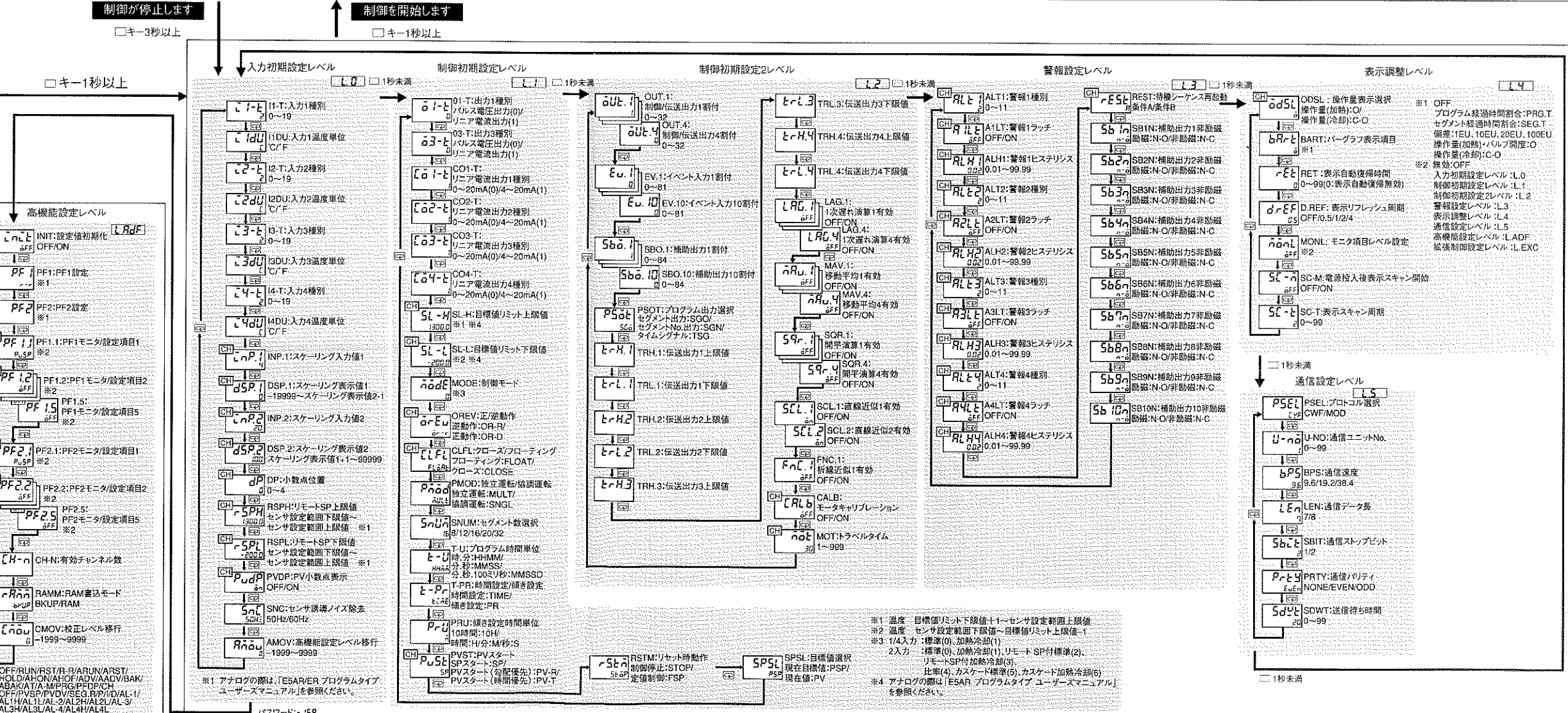
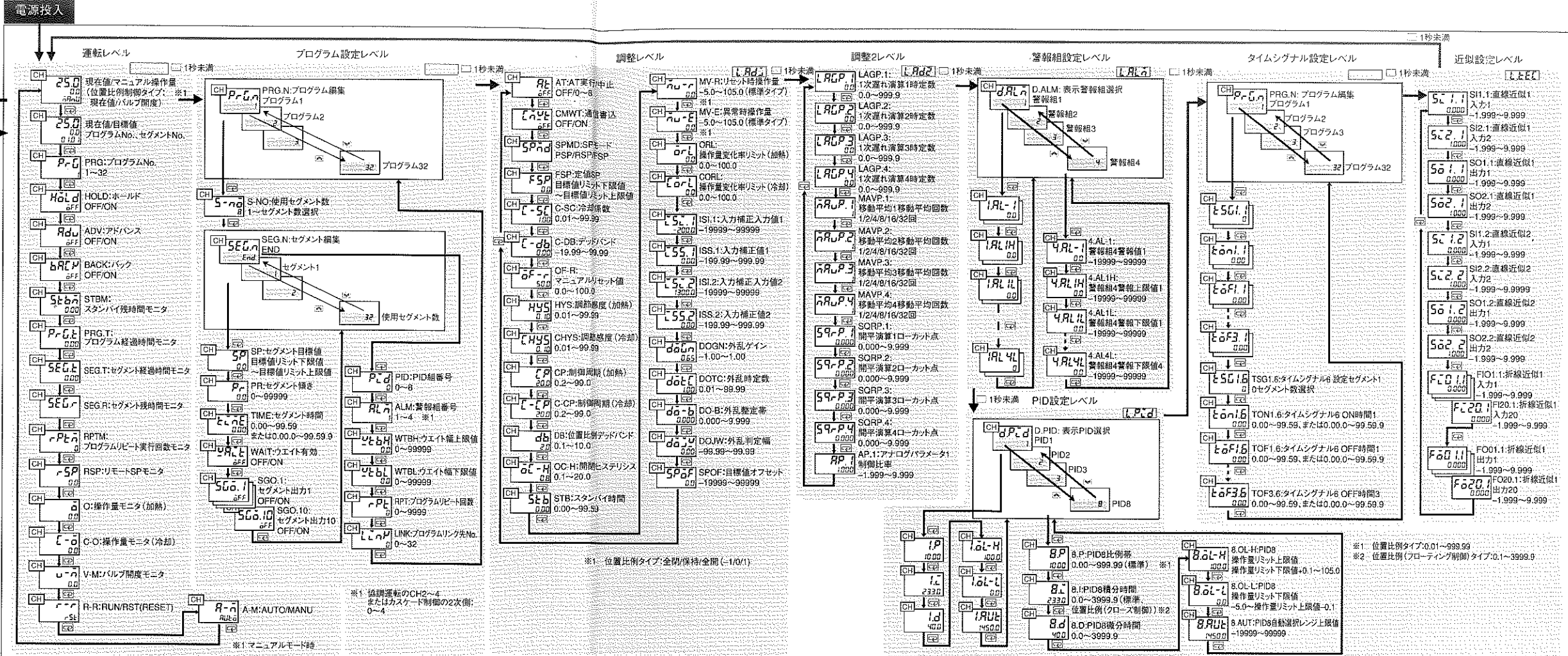
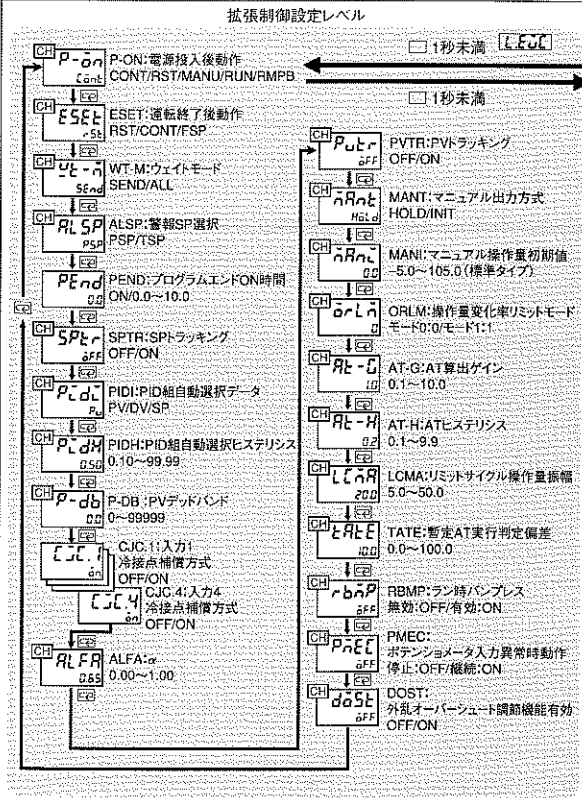
キー操作での設定変更を制限する

Table with 3 columns: 設定値 (Setting Value), キー操作での設定変更 (Setting Change by Key Operation), and 備考(除外項目) (Remarks/Excluded Items). It lists which key operations are allowed or prohibited for setting changes.

PFキープロテクト

PF1/PF2のキー操作を制限する

Table with 2 columns: 設定値 (Setting Value) and 内容 (Content). It specifies whether PF1/PF2 keys are effective or ineffective for certain operations.



Display of Settings and Set Values

Settings Set value (The default value is displayed.)
Change with **▲**/**▼** keys

Protect Levels

Operation Adjustment Protect
ICPT: initial setting protect
WPT: Setting change protect
RPT: PF key protect

At least 3 seconds
At least 1 second

Operation Adjustment Protect

This restricts key operation in the operation/adjustment areas.

Set value	Operation level	Program Setting Level	Alarm Set Setting Level
0	Permitted	Permitted	Permitted
1	Permitted	Permitted	Prohibited
2	Permitted	Prohibited	Prohibited
3	Permitted	Prohibited	Prohibited
4	Restricted *1	Prohibited	Prohibited

*1: The program number cannot be changed.
Permitted: No restrictions (Display, changes, and moving between levels are possible.)
Restricted: Some restrictions apply (Only display is possible; Changes are prohibited.)
Prohibited: All operations are prohibited (Display and moving between levels are prohibited.)

Initial Setting Protect

Restricts movement in the initial settings area

Set value	Movement between input initial setting levels	Control initial settings/ Control initial settings 2/ Alarm settings/ Display adjustment / Movement between communication setting levels
0	Permitted (display "Move to advanced setting level")	Permitted
1	Permitted (Do not display "Move to advanced setting level")	Permitted
2	Prohibited	Prohibited

Setting Change Protect

Restricts setting changes by key operation.

Set value	Setting change by key operation	Remarks (exclusions)
OFF	Permitted	-
ON	Prohibited	All parameters on protected level "Move to advanced setting level" "Move to calibration level" "Program Editing" "Segment Editing" "Display Alarm Set Selection" "Display PID Selection"

PF key protect

Restricts PF1/PF2 key operation

Set value	Description
OFF	PF1/PF2 keys enabled
ON	PF1/PF2 keys disabled (Prohibits operation as function key or channel key)

Expansion Control Setting Level

Press **▲** (less than 1 second) **▲**
Press **▼** (less than 1 second) **▼**

- P-ON: Operation at power ON
- ESET: End condition RST/CONT/FSP
- WT-M: Wait mode SEND/ALL
- ALSP: Alarm SP selection PSP/TSP
- PEND: Program end ON time ON/O:0-10.0
- SPT-R: SP tracking OFF/ON
- PIDI: PID set automatic selection data PV/DV/SP
- PIDIH: PID set automatic selection hysteresis 0.10-99.99
- P-DB: PV dead band 0-99999
- CJC: Input 1 Cold junction compensation OFF/ON
- CJC4: Input 4 Cold junction compensation OFF/ON
- ALFA: α 0.00-1.00
- PMEO: Operation at potentiometer input error Stop:OFF/Potential:ON
- DOST: Disturbance overshoot adjustment function OFF/ON

Power ON

Press **▲** (less than 1 second) **▲**
Press **▼** (less than 1 second) **▼**

Operation Level

- PV/manual MV (Position proportional control type) / PV/valve opening
- Present value/Set point Program No., Segment No.
- PRG: Program No. 1-32
- HOLD: Hold OFF/ON
- ADV: Advance OFF/ON
- BACK: Back OFF/ON
- STBM: Remaining standby time monitor
- PRG-T: Elapsed program time monitor
- SEG-T: Elapsed segment time monitor
- SEG-R: Remaining segment time monitor
- RPTM: Program execution repetition monitor
- RSP: Remote SP monitor
- O: MV monitor (heating)
- C-O: MV monitor (cooling)
- V-M: Valve opening monitor
- R-R: RUN/RST (RESET)
- A-M: AUTO/MANU

Program Setting Level

- PRG.N: Program editing Program 1-32
- S-NO: Number of segments used 1-32
- SEG.N: Segment editing Segment 1-32
- SP: Segment set point. Set point lower limit to Set point upper limit
- PR: Segment rate of rise 0-99999
- TIME: Segment time 0.00-99.99
- WAIT: Wait OFF/ON
- SGO.1: Segment output 1 OFF/ON
- SGO.10: Segment output 10 OFF/ON
- PID: PID Set number 0-8
- WTBH: Wait band upper limit 0-99999
- WTBL: Wait band lower limit 0-99999
- RPT: Program repetitions 0-9999
- LINK: Program link destination 0-32

Adjustment Level

- AT-AT: execute/cancel OFF/ON
- CMWT: Write via communication OFF/ON
- SPMD: SP mode PSP/RSP/FSP
- FSP: Fixed SP Set point lower limit to set point upper limit 0.01-99.99
- C-SC: Cooling coefficient 0.01-99.99
- C-DB: Dead band -19.99-99.99
- OF-R: Manual reset value 0.0-100.0
- HYS: Hysteresis (heating) 0.01-99.99
- CHYS: Hysteresis (cooling) 0.01-99.99
- CP: Control period (heating) 0.2-99.0
- C-CP: Control period (cooling) 0.2-99.0
- DB: Position proportional dead band 0.1-10.0
- OC-H: Open/close hysteresis 0.1-20.0
- STB: Standby time 0.00-99.99
- MV-R: MV at Reset -5.0-105.0 (Standard type)
- MV-E: MV at PV error -5.0-105.0 (standard type)
- ORL: MV change rate limit (heating) 0.0-100.0
- COL: MV change rate limit (cooling) 0.0-100.0
- ISL.1: Input value 1 for input correction -1999.9-9999.9
- ISS.1: Input correction 2 for input correction -199.99-999.99
- ISL.2: Input value 2 for input correction -1999.9-9999.9
- ISS.2: Input correction 2 for input correction -199.99-999.99
- DOTC: Disturbance time constant 0.01-99.99
- DO-B: Disturbance rectification band 0.000-9.999
- DO-W: Disturbance judgment width 99.99-99.99
- SPOF: Set point offset -1999.9-9999.9

Adjustment 2 Level

- LAGP.1: First order lag operation 1 Time constant 0.0-999.9
- LAGP.2: First order lag operation 2 Time constant 0.0-999.9
- LAGP.3: First order lag operation 3 Time constant 0.0-999.9
- LAGP.4: First order lag operation 4 Time constant 0.0-999.9
- MAVP.1: Move average 1 Move average count 1/2/4/8/16/32
- MAVP.2: Move average 2 Move average count 1/2/4/8/16/32
- MAVP.3: Move average 3 Move average count 1/2/4/8/16/32
- MAVP.4: Move average 4 Move average count 1/2/4/8/16/32
- SQRP.1: Extraction of square root 1 Low-cut point 0.000-9.999
- SQRP.2: Extraction of square root 2 Low-cut point 0.000-9.999
- SQRP.3: Extraction of square root 3 Low-cut point 0.000-9.999
- SQRP.4: Extraction of square root 4 Low-cut point 0.000-9.999
- AP.1: Analog parameter Control rate -1.999-9.999

Alarm Set Setting Level

- D-ALM: Display alarm set selection Alarm set 1-4
- ALM.1: Alarm set 1 Alarm set 2 Alarm set 3 Alarm set 4
- ALM.1.1: Alarm set 1 alarm value 1 -1999.9-9999.9
- ALM.1.2: Alarm set 1 alarm value 2 -1999.9-9999.9
- ALM.1.3: Alarm set 1 alarm value 3 -1999.9-9999.9
- ALM.1.4: Alarm set 1 alarm value 4 -1999.9-9999.9
- ALM.2: Alarm set 2 alarm value 1 -1999.9-9999.9
- ALM.2.1: Alarm set 2 alarm value 1 upper limit 1 -1999.9-9999.9
- ALM.2.2: Alarm set 2 alarm value 2 -1999.9-9999.9
- ALM.2.3: Alarm set 2 alarm value 3 -1999.9-9999.9
- ALM.2.4: Alarm set 2 alarm value 4 -1999.9-9999.9
- ALM.3: Alarm set 3 alarm value 1 -1999.9-9999.9
- ALM.3.1: Alarm set 3 alarm value 1 upper limit 1 -1999.9-9999.9
- ALM.3.2: Alarm set 3 alarm value 2 -1999.9-9999.9
- ALM.3.3: Alarm set 3 alarm value 3 -1999.9-9999.9
- ALM.3.4: Alarm set 3 alarm value 4 -1999.9-9999.9
- ALM.4: Alarm set 4 alarm value 1 -1999.9-9999.9
- ALM.4.1: Alarm set 4 alarm value 1 upper limit 1 -1999.9-9999.9
- ALM.4.2: Alarm set 4 alarm value 2 -1999.9-9999.9
- ALM.4.3: Alarm set 4 alarm value 3 -1999.9-9999.9
- ALM.4.4: Alarm set 4 alarm value 4 -1999.9-9999.9

Time Signal Setting Level

- PRG.N: Program editing Program 1-32
- TSG.1.6: Time signal 6 set segment 1 0-Number of segments
- TON.1.6: Time signal 6 ON time 1 0.00-99.99 or 0.00-0.99.99.9
- TOF.1.6: Time signal 6 OFF time 1 0.00-99.99 or 0.00-0.99.99.9
- TOF.3.6: Time signal 6 OFF time 3 0.00-99.99 or 0.00-0.99.99.9

Approximation Setting Level

- SH.1: Straight-line approximation 1 Input 1 -1.999-9.999
- SH.2: Straight-line approximation 1 Input 2 -1.999-9.999
- SH.1.1: Straight-line approximation 1 Output 1 -1.999-9.999
- SH.2.1: Straight-line approximation 1 Output 2 -1.999-9.999
- SH.1.2: Straight-line approximation 2 Input 1 -1.999-9.999
- SH.2.2: Straight-line approximation 2 Input 2 -1.999-9.999
- SH.1.2: Straight-line approximation 2 Output 1 -1.999-9.999
- SH.2.2: Straight-line approximation 2 Output 2 -1.999-9.999
- FI.1: Broken-line approximation 1 Input 1 -1.999-9.999
- FI.2: Broken-line approximation 1 Input 2 -1.999-9.999
- FI.1.1: Broken-line approximation 1 Output 1 -1.999-9.999
- FI.2.1: Broken-line approximation 1 Output 2 -1.999-9.999
- FO.1: Broken-line approximation 1 Input 1 -1.999-9.999
- FO.2: Broken-line approximation 1 Input 2 -1.999-9.999
- FO.1.1: Broken-line approximation 1 Output 1 -1.999-9.999
- FO.2.1: Broken-line approximation 1 Output 2 -1.999-9.999

Control stops Hold **▲** down for at least 3 seconds
Control starts Hold **▼** down for at least 1 second

Input Initial Setting Level

- I1-T: Input 1 type 0-19
- I1DU: Input 1 temperature units °C/°F
- I2-T: Input 2 type 0-19
- I2DU: Input 2 temperature units °C/°F
- I3-T: Input 3 type 0-19
- I3DU: Input 3 temperature units °C/°F
- I4-T: Input 4 type 0-19
- I4DU: Input 4 temperature units °C/°F
- INP.1: Scaling input value 1
- DSP.1: Scaling display value 1 -1999.9-Scaling display value 2-1
- INP.2: Scaling input value 2
- DSP.2: Scaling display value 2 -1999.9-Scaling display value 1 +1-9999.9
- RSPL: Remote SP upper limit Lower limit of sensor setting range to upper limit of sensor setting range *1
- RSPL: Remote SP lower limit Lower limit of sensor setting range to upper limit of sensor setting range *1
- PVDP: PV decimal point display OFF/ON
- SNC: Sensor induction noise reduction 50Hz/60Hz
- AMOV: Move to advanced function setting level -1999-9999

Control Initial Setting Level

- O1-T: Output 1 type Pulse voltage output (0) Linear current output (1)
- O3-T: Output 3 type Pulse voltage output (0) Linear current output (1)
- CO1-T: Linear current output 1 type 0-20mA(0)/4-20mA(1)
- CO2-T: Linear current output 2 type 0-20mA(0)/4-20mA(1)
- CO3-T: Linear current output 3 type 0-20mA(0)/4-20mA(1)
- CO4-T: Linear current output 4 type 0-20mA(0)/4-20mA(1)
- SL-H:SP upper limit *2 *4
- SL-L:SP lower limit *2 *4
- MODE: Control mode Floating: FCA/T Closed: CLOS
- OREV: Forward/reverse operation Reverse:OR-R/Forward:OR-D
- CL-F: Closed/Floating Floating: FCA/T Closed: CLOS
- PMOD: Independent operation/Coordinated operation: MULT Coordinated operation: SINGL
- SNU: Number of segments 1/2/16/20/32
- T-U: Program time unit Hour:Minute:HHMM Minute:Second:MMSS Minute:Second:MMSSD
- T-PR: Step time/Rate of rise programming Step time: THMS Rate of rise programming: PR
- PRU: Time unit of ramp rate 10 hours:10H Hour: H/Minute: M/Second: S
- SPS: SP start: SP SPV start (slope priority): PV-R/PV start (time priority): PV-T
- ISTM: Operation at reset Stop control: STOP Fixed control: FSP
- SPSL: Set point selection Present set point: FSP Present value: PV

Control Initial Setting 2 Level

- OUT.1: Control/Transfer output 1 allocation 0-32
- OUT.4: Control/Transfer output 4 allocation 0-32
- EV.1: Event input 1 allocation 0-81
- EV.10: Event input 10 allocation 0-81
- SBO.1: Auxiliary output 1 allocation 0-84
- SBO.10: Auxiliary output 10 allocation 0-84
- PSOT: Program output selection Output segment: SGO
- TRH.1: Transfer output 1 upper limit
- TRH.2: Transfer output 2 upper limit
- TRH.3: Transfer output 3 upper limit
- TRH.4: Transfer output 4 upper limit
- LAG.1: First order lag operation 1 enabled OFF/ON
- LAG.4: First order lag operation 4 enabled OFF/ON
- MAV.1: Movement average 1 enabled OFF/ON
- MAV.4: Movement average 4 enabled OFF/ON
- SQR.1: Extraction of square root 1 enabled OFF/ON
- SQR.4: Extraction of square root 4 enabled OFF/ON
- SCL.1: Straight-line approximation 1 enabled OFF/ON
- SCL.2: Straight-line approximation 2 enabled OFF/ON
- FNC.1: Broken-line approximation 1 enabled OFF/ON
- CALB: Motor calibration OFF/ON
- MOT: Travel time 1-999

Alarm Setting Level

- ALT.1: Alarm 1 type 0-11
- ALT.1: Alarm 1 latch OFF/ON
- ALH.1: Alarm 1 hysteresis 0.01-99.99
- ALT.2: Alarm 2 type 0-11
- AZLT: Alarm 2 latch OFF/ON
- ALH.2: Alarm 2 hysteresis 0.01-99.99
- ALT.3: Alarm 3 type 0-11
- ALH.3: Alarm 3 hysteresis 0.01-99.99
- ALT.4: Alarm 4 type 0-11
- ALH.4: Alarm 4 hysteresis 0.01-99.99
- SBIN: Auxiliary output 1 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB2N: Auxiliary output 2 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB3N: Auxiliary output 3 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB4N: Auxiliary output 4 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB5N: Auxiliary output 5 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB6N: Auxiliary output 6 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB7N: Auxiliary output 7 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB8N: Auxiliary output 8 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB9N: Auxiliary output 9 open in alarm Close in alarm: N-O Open in alarm: N-C
- SB10N: Auxiliary output 10 open in alarm Close in alarm: N-O Open in alarm: N-C

Display Adjustment Level

- ODSL: Manipulated variable display selection Manipulated variable (heating): O Manipulated variable (cooling): C-O
- BART: Bar graph display item 1
- RET: Display auto-return time 0-99 (0: Display auto-return disabled)
- D.REF: Display refresh period OFF/0.5/1/2/4
- MCNL: Monitor item level setting
- SC-M: Start display scan at power ON
- SC-T: Display scan period 0-99
- PSEL: Protocol selection CWF/MOD
- U-NO: Communication unit no. 10-99
- BPS: Communication speed 38.4/19.2/9.6/4.8
- LEN: Communication data length 7/8
- SBIT: Communication stop bit 1/2
- PRTY: Communication parity NONE/EVEN/ODD
- SDWT: Transmission wait time 30-99

*1 Temperature: SP lower limit-1 to upper limit of sensor setting range
*2 Temperature: Lower limit of sensor setting range to SP upper limit -1
*3 1/4 input: Standard (0) / heating or cooling (1)
2 input: Standard (0) / heating or cooling (1) Standard with remote SP (2) / Heating or cooling (3) with remote SP / Proportion (4) / Cascade standard(5) / Cascade heating or cooling (6)
*4 For analog, refer to the "ESAP/ER-T User's Manual".