Al Right Reseeved．Copyighte 2008 ，RKC I ISTTRUMENT
■ SV setting \＆Monitor mode

| Symbol | Name | The display or data ranges | Factory set |
| :--- | :--- | :--- | :--- |
| value |  |  |  |


| Symbol | Name | The display or data ranges | Factory set |
| :---: | :---: | :---: | :---: |
|  | Measured value（PV）／ | PV display：PV is displayed．${ }^{2}$ ． high Inputscaie ow to Input scale high Inputscale <br> SV ispalay The target value for control is displayed <br> －Semote sesting（RS）input value ${ }^{2}$ $\qquad$ |  |
| 54 | Setvalue（Sy ${ }^{12}$ | Setting limiter low to Setting limiter high | 0 |
| Cr 1 | Current transformer 1 （CT1） input value monito | 0.0 to 30.0 A or 0.0 to 100.0 A <br> Displayed only when the CT1 input is provided |  |
| cre | Curent trastomer 2（CT2） |  |  |
| 54 r | Remote setingers in iput value montior value monitor | Setting limiter low to Setting limiter high Displayed only when the Remote setting（RS） input is provided | － |
| Eもत̄ 1 | Event monitor 1 | It is possible to check the type of created event depending on which digit was lit． any one of the Event types from 1 to 4 ． | － |
| ヒセกั己 | or2 | $\square \square$ <br> Heater break alarm 2 （HAAR） It is possible to check the type of HBA which occurred depending on which digit was lit． occurred depending on which digit was lit． Display when the CT1 or CT2 input is provided． This screen is not displayed when set the CT assignment to＂ 0 ：None．＂ |  |
| п̈ | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Manipuluated outuput value } \\ \text { hheal.sidide] } \end{array} \\ \hline \text { her } \end{array}$ |  |  |
| Г̄४ว | $\begin{aligned} & \text { Manipulated output value } \\ & \text { (MV2) monitor } \\ & \text { [cool-side] } \end{aligned}$ | -5.0 to +105.0 \％ MV2 of cool－side is displayed when the control action is Heat／Cool PID contro |  |
| RPr | ${\underset{\text { Memory }}{ }}^{\text {Monitor }} 4 \mathrm{area}$ soak time |  minutes <br> Memory reas soak ine is is isplayed when the <br> Ramis <br> is being execulted． |  |
| RrE | Memory area tanster | ${ }_{\text {When }}^{1 \text { tEXT：Exemal }}$ mode＂is selected at Contol <br>  <br>  | 1 |
| Р5п＇ | Manipulated output value at MV transfer |  | 0.0 |
| 1 lr | Interock release | oFF：Interlock release Not displayed when Event 1，2， 3 or 4 interlock function is not used | ofF |




| Symbol | Name | ta ran | ${ }^{\text {Factory set }}$ value |
| :---: | :---: | :---: | :---: |
| A「U | PIDAT tra | On：A Autouning（AT） ofF：Plic conto | OFF |
| 5 ¢ | Statup tuning（ST） |  | ${ }^{\text {OFF }}$ |
| chr | Automatic temperature rise learning | on：Learning oFF：Unused <br> ＊When the Automatic temperature rise learning is finished，the setting will automatically returns to This screen is not displayed when the Automatic temperature rise group is set to＂ 0 ．＂ | ${ }^{\text {on }}$ |
| 月－п | AutoManual tanster | AUT：Auto mode ${ }_{\text {Man }}^{\text {Manual }}$ | AUTO |
| －－L | Remotelocal transer | $\begin{array}{ll}\text { LoC：} & \text { Local mode } \\ \text { rEM：} & \text { Remote mode }\end{array}$ Displayed only when the Remote setting（RS） input or Communication is provided | Loc |


－Parameter setting mode

| Symbol | Name | Datarange | Factory set |
| :---: | :---: | :---: | :---: |
| EH： | Event 1 set value（EVV1）${ }^{1}$ | Deviaioion：Input span to thput span ${ }^{2}$ | 50 |
| EH2 | Event 2 Set value（EV2）${ }^{1}$ | Inputssale lowto mput scale high ${ }^{2}$ | 50 |
| E43 | Event 3 set value（EV3）${ }^{1}$ | Matiole | 50 |
| E 44 | Event s set value（EV4）${ }^{1}$ | used．EV4 is not displayed when the Event | 50 |
| LᄂR | Control loop break alarm （LBA）time ${ }^{1}$ | 1 to 7200 seconds，oFF：Unused his screen is displayed when the Event 4 used as an LBA | 480 |
| Lbd | LBA deadband ${ }^{12}$ | 0 to Input span <br> This screen is displayed when the Event 4 | 0 |
| P | $\begin{aligned} & \hline \text { Proportional band }{ }^{1} \\ & \text { [heat-side] } \end{aligned}$ |  <br>  <br> $0(0.0,0.00)$ ：ONOFF Faction | $30^{\text {a }}$ |
| ＇ | Integral time <br> ［heat－side］ | PID control or Heat／Cool PID control： 1 to 3600 seconds or 0.1 to 1999.9 seconds 1t 3 ：PD secon <br> （both heat－side and cool－side） <br> osition proportioning PID control． <br> 1 to 3600 seconds or 0.1 to 1999.9 second | 240 |
| d | Derivative time ${ }^{1,3}$ ［heat－side］ <br> ［heat－side］ | 1103600 seconds or 0.11010999 .9 seconds <br> off：Pl a action | 60 |
| rPr | Contoliesponse paameter | 0：Slow 1：Medium 2：Fast When the P or PD action is selected，this setting becomes invalid．］ | Note 1 |
| $P_{\text {c }}$ | $\begin{aligned} & \text { Proporiona band }{ }^{\text {Pad }} \\ & \text { [coolsidel } \end{aligned}$ | ${ }_{1(0.1, ~ .0 .01)}^{\text {TCO }}$ to Input span ${ }^{2}$（Unit：$\left.{ }^{\circ} \mathrm{C}\left[{ }^{\circ} \mathrm{F}\right]\right)$ Voltage（N）Curent（I）inputs： 0.1 to $1000.0 \%$ of input span | $30^{\text {a }}$ |
| 15 | Integral time ［cool－side］ | 1 to 3600 seconds or 0.1 to 1999.9 seconds oFF：PD action（both heat－side and cool－side） | 240 |
| dc | Derivative time ${ }^{1,3,4}$ <br> ［cool－side］ | 110 3600 seconds or 0.1 to 1099.9 seconds ofF：Pla acion | 60 |
| d | Overlap $/$ eaabana ${ }^{14}$ |  <br>  Minus $(-)$ seting However，the overapping range is within the the proportionar range． | $0^{\text {a }}$ |
| $\bar{n}$ | Manual reset ${ }^{1}$ | 100.0 to $+100.0 \%$ <br> the offset can be manually eliminated <br> The screen is displayed when the Integral time［heat－side］or Integral time［cool－side］is set to＂OFF．＂ | ${ }^{0} 0$ |
| 58－U | Seting change rate liniter （up） （u） | 1 to Input span／unit time＊ oFF：Unused | OFF |
| 54rd |  | ＊Unit time（tactor set value）：60 seconds | OFF |
| 85「 | Area soak time ${ }^{\text {15 }}$ | 0 minutes 00 seconds to 199 minutes 59 seconds or 59 minutes <br> Any Area soak time is set when Ramp／Soak control is performed <br> Data range of Area soak time can be on the Soak time unit | 0.00 |
| Lnth | Link area number ${ }^{\text {¹0 }}$ | 1 to $8 \quad$ oFF： No link It is possible to perform Ramp／Soak control by linking each memory area The memory area at the linked destination at that time is set． | OFF |






| Symbol | Name | Datarange |  |  | Factorn set value |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pb | PV biss $^{1}$ | Input span to＋ nput span |  |  | 0 |
| dF | PV digitala fier | 0.10100 | 0 seconds | ofF：Unused | OFF |
| Pr | PV ratio | 0.50001 .500 |  |  | 1.000 |
| PLI | PV Iow input cutoff | This scren This screen is displayed when |  |  | 0.00 |
| rb | RS bias ${ }^{\text {1a，}}$ | －Input span to thnut span |  |  | 0 |
| dF？ | RS digitad fitera ${ }^{\text {a }}$ | 0．10 1000．seconds ofF：Unused |  |  | off |
| r | RS ratio ${ }^{\text {a }}$ | 0.001 10．9．999 |  |  | 1.000 |
| r | $\begin{aligned} & \begin{array}{l} \text { Propotional cycle time } \\ \text { Ineatside] } \end{array} \end{aligned}$ | 0.1 to 100.0 secondsThis screen is not displayed when the output type is Voltage／Current output |  |  | $20.0{ }^{\text {b }}$ |
| t | Proportional cycle time ［cool－side］ | outputtype is Votage/Curent output |  |  | $20.0^{6}$ |
| Rdd I | Device address $1^{\circ}$ |  |  |  | ${ }^{\circ}$ |
| bP5 1 | Communication speed $1^{\text {c．d }}$ | 2．4：2400 bps <br> 4．8： 4800 bps <br> 9．6． <br> 19．2． 900 bops <br> 38．4： 192000 bps |  |  | 19.2 |
| bir | Data bit conifuration $1^{\text {c．}}$ | Bit configuration   <br>  Data Stop |  |  | ${ }^{8 n 1}$ |
|  |  |  |  |  |  |
|  |  | 8n2 | ${ }^{8}$ | 2 Without <br> 1 Eveont <br> 1  |  |
|  |  |  |  |  |  |
|  |  |  | ${ }_{8}^{8}$ | ${ }_{1}^{1}$ O Odd |  |
|  |  | 802 |  | 2 Odd <br> 1 Witdout <br> 1  |  |
|  |  | 7722＊ | 7 | ${ }_{2}{ }^{2}$ Without |  |
|  |  | $\frac{71}{772^{*}}$ | $\stackrel{7}{7}$ | 1 Even <br> 2 Even <br> 1  |  |
|  |  | 7－701＊ | $\frac{7}{7}$ | 1 Oodd <br> 2 Odd |  |
|  |  | $\begin{aligned} & \text { * When the Modbus communication } \\ & \text { protocol selected, this setting becomes } \\ & \text { invalid. } \\ & \hline \end{aligned}$ |  |  |  |
| in 「 | Ineval time $1^{\text {a／d }}$ | $010250 \mathrm{~ms}$ |  |  | 10 |
| Rdd？ | Device adress $2^{\circ}$ | Same as the Device address 1 |  |  |  |
| bP52 | Communication speed $2^{\text {dee }}$ | Same as the Communication speed 1 |  |  |  |
| bire | Data bit configuraion $2^{\text {de }}$ | Same as the Data bit conifiguaion 1 |  |  |  |
| 1 nrz | Inteval lime $2^{\text {de }}$ | Same as the Inteval time 1 |  |  |  |
| Let | Set lock level |  |  |  | 0000 |

Varies with the seting of the eecimal point postion


－Engineering mode
1．Parameters in Engineering mode are settable only when the controller is in
mode．
In addition，there are invalid parameters when no optional function is
specified．

| Symbol | Name | Data range | Factor set |
| :---: | :---: | :---: | :---: |
| F 10. | Funcio | This is fists parameler symbol of Function block 10 ． |  |
| 5PCH | display | 0 ：＂SToP＂is displayed on the PV display | 1 |
| dE | Bar graph display |  | 1 |
| dEUT | Bar graph display resolution | 1 to 100 digit／dot Bar draph display（dE）was set to deviation value or CT input value． | 100 |
| d50p | $\begin{aligned} & \text { PV Visashing isplay at } \\ & \text { inputeror } \end{aligned}$ | 0：Flashing display 1：Non－flashing display | 0 |
| Fil． | Function block 11 | This is first pearameeter symbol of Function block 11. |  |
| Fil | ct | $\begin{aligned} & \hline \text { 0: Unused } \\ & \text { 1: Used } \end{aligned}$ | ${ }^{1}$ |
| Fn | Dinect key tpe |  | 1 |


| Symbol | Name | Datarange | Factory set value |
| :---: | :---: | :---: | :---: |
| F2 1. | Function block 21 | This is fists pearameter symbol of Function block 21. |  |
| $1 \cap \mathrm{P}$ |  |  | $0^{\text {a }}$ |
| Unir | Display unit | O：${ }^{\circ}$ C $\quad$ 1：${ }^{\circ} \mathrm{F}$ Sse to select the temperature unit for Thermocouple（TC）and RTD inputs． | ${ }^{0}$ |
| P¢dP | Decimal point position |  | $0^{0^{a}}$ |
| P¢5H | Input scale high |  |  |
| PE5L | Input scale low | TC／RTD inputs： <br> of the selected input range to Input scale high <br> Voltage（V）／Current（I）inputs： Varies with <br> position） |  |
| Pob | Inputeror deteem mination point （high） | Input scale low－（5 \％of input span）to Input scale high＋（5 \％of input span） （Varies with the setting of the Decimal point |  |
| PU＇n | Input error determination point （low） | postion） |  |
| 605 | Bumout direction | 0：Upscale <br> 1：Downscale <br> Valid only when the TC input and Voltage <br> （low）input are selected | ${ }^{0}$ |
| 59r | Square rootextracion | i：Unused | 0 |
| PFrq | Power supply fequency | 0： 50 Hz <br> 1： 60 Hz <br> If the display on the screen flickers，set the value to the same value as the power be changed while if can be normally measured with the CT input provided | ${ }^{0}$ |
| 5ñ | Samping cyde | $\begin{aligned} & 0: 50 \mathrm{~ms} \\ & 1: 100 \mathrm{~ms} \\ & 2: 250 \mathrm{~ms} \end{aligned}$ | 1 |
| F22． | Function block 22 | This is fists parameter s smmol of function block 22. |  |
| rinp |  |  | ${ }^{15}{ }^{\text {a }}$ |
| F23． | Function block 23 | This is firist parameler ssmbol of function block 23. |  |
| di 51 | Digital input（O）assigment | 1 1026（Refer to next page tale 1．） | 1 |
| F30． | Function block 30 | This is first parameter symbol of function block 30. |  |
| Loci | Outut assigment | 1 to 15 （Referet to next page table 2．） | 1 |
| orr 1 | Timer 1 | 0.0 to 600.0 second Customization tool is necessary when the timer function is availed． | 0.0 |
| orre | Timer 2 |  | 0.0 |
| arrz | Timer 3 |  | 0.0 |
| orr 4 | Timer 4 |  | 0.0 |
| Euc | EnergizedDoenergized |  | 0000 |


| Symbol | Name | Data range | Factory set |
| :---: | :---: | :---: | :---: |
| RLC 1 | $\begin{aligned} & \text { Alam( ALMMM lamp Iighting } \\ & \text { condifion 1a } \end{aligned}$ |  | 111 |
| RLLE | Alam．（ALMM lamp lighting condition ${ }^{2}$ |  | 0011 |
| 55 | Ouput status at STOP mode |  | 0000 |
| F33． | Function block 33 | This is first parameter smmbol of function block 33. |  |
| Ro | Transmisision output type |  | ${ }^{1}$ |
| RH5 | $\begin{aligned} & \text { Transmission output } \\ & \text { scale high } \end{aligned}$ | When the PV，SV，SV monitor and RS Input scale low to Input scale high （Varies with the setting of the Decimal point position） <br> When the devi and MV2：-5.0 to $+105.0 \%$ When the deviation value： －Input span to＋Input span | $\begin{aligned} & \text { Input scale } \\ & \text { high } \end{aligned}$ |
| RLS | Transmission output scale low |  |  |
| F41． | Function block 41 | This is firist parameler symbol of Function block 41. |  |
| E5！ | Event1 1ype |  | $0^{\circ}$ |
| EHo I | Event 1 hold action |  | $0^{\circ}$ |
| EILI | Event 1 interock | 0：Unused 1：Used | 0 |
| EH | Event1 1 differenial gap |  <br> （Varies with th <br> point position） <br> MV： 0.0 to $110.0 \%$ | ${ }^{\text {b }}$ |
| Ebr I | Event1 delay timer | 0.006000 .0 seconds | 0.0 |
| EEa I | Force ON of Event 1 action | $\qquad$ | 0000 |
| F42． | Function block 42 | This is fisist pearameler symbo of function block 42. |  |
| E52 | Event 2 tpe | Same as Event1 1 tpe |  |
| EHo己 | Event 2 hold action | Same as Event 1 hold action |  |
| EIL2 | Event 2 intelock | Same as Event 1 interlock |  |
| EH2 | Event 2 differential gap | Same as Event1 differential gap |  |
| Eur？ | Event 2 delay timer | Same as Event1 delay timer |  |
| EEo？ | Force on of Eventr a action | Same as Force on of Event 1 action |  |
| F43． | Function block 43 | This is fists pearameier symbo of function block 43 ． |  |
| E53 | Event 3 tpe | Same as Event 1 type |  |
| EHO3 | Event3 hold action | Same as Event 1 hold acion |  |
| EIL ${ }^{\text {c }}$ | Event 3 inerelock | Same as Event1 interlock |  |
| EH3 | Event 3 differential gap | Same as Event1 didferential gap |  |
| EUT 3 | Event 3 delay timer | Same as Event1 delay timer |  |
| EEO 3 | Force ON of Event 3 action | Same as Force ON of Evert 1 action |  |
| F44． | Function block 44 | This is fists parameler symbol of f funcion block 44. |  |
| E54 | Event 4tpe | 9：Control loop break alarm（LBA） The other data is the same as an Event 1 type |  |
| EH04 | Event 4 hold action | Same as Event 1 hold actionThe invalidity in case of the LBA． |  |
| EIL4 | Event 4 inererock | Same as Event1 interlock |  |
| EH4 | Event d differential gap | Same as Event 1 differential gapThe invalidity in case of the LBA． |  |
| Ebr 4 | Event 4 delay timer | Same as Event1 delay timer |  |
| EEa 4 | Force ON of Eventt action | Same as Force ON of Event 1 action The invalidity in case of the LBA． |  |

setto＂1：ALM lamp is itt＂
Factory set value vaies deending on the instument specificaion．

| Symbol | Name | Datarange | detory set |
| :---: | :---: | :---: | :---: |
| F45 | Function block | This is fist parameler symbol of function block 45. |  |
| cral | CT1 raio |  | ${ }^{8000^{\text {a }}}$ |
| cral | CT1 assignment |  | 1 |
| H65 ： | ${ }_{\text {Heater break alam } 1 \text {（HBA1）}}^{\text {Heper }}$ | 0 ：Heater break alam 1 （HBA1）type $A$ 1：Heater break alarm 1 （HBA1）type | $0^{\text {a }}$ |
| H65 | Number of heater break alarm 1 （HBA1）delay times | 0 to 255 | 5 |
| F45． | Function block 46 | This is first parameter symbol of function block 46. |  |
| crrz | CT2 atio | Same as CTI ratio |  |
| Craz | CT2 assignment |  | 0 |
| H652 | Heater break alarm 2 （HBA2） <br> type | 0：Heater break alarm 2 （HBA2）type A <br> 1：Heater break alarm 2 （HBA2）type B | 0 |
| H6C？ | Number of heater break alarm 2 （HBA2）delay time | （HBA1）delay times <br> This is first parameter symbol of Function block 50 |  |
| F50． | Function block 50 |  |  |
| Pd | Hotcold stat | 0：Hot start 1 2：Cold start <br> 1：Hot start 2 <br> 3：Stop start  | 0 |
| PdR | Stard delemmination point | 0 to Input span <br> （0：Action depending on the Hot／Cold start selection） <br> （Varies with the setting of the Decimal poin <br> position | $\begin{gathered} 3 \% \text { of } \\ \text { input span } \end{gathered}$ |
| ᄃ月̄̈ | Exemal inut type | 0 ：Remote setting inpu <br> 1．Intercontroller communication cascade <br> control <br> 2：Intercontroller communication ratio setting | 0 |
| $\overline{\mathrm{I}} \mathrm{CH}$ | Master channel selection | 0 to 31 <br> This value is valid when Intercontroller communication cascade control or ratio setting is selected． | 0 |
| rrt | Sv tacking | 0：Unused 1：Used | 1 |
| ̄̈r 5 | MV transfer function ［Action taken when changed to Manual mode from Auto mode］ | 0：MV1 or MV2 in Auto mode is used． <br> （DI）： <br> MV1 or MV2 in previous Manual mode is used． <br> When selected by front key： <br> MV1 or MV2 in Auto mode is used． <br> 2：MV1 or MV2 in previous Manual mode is <br> used | 0 |
| Purs | PV tansfer function | 0：Unused 1：Used | 0 |
| F5 ： | Function block 51 | This is firis tarameler symbol of funcioion bloch |  |
| 05 | Controa action |  | $1^{\text {a }}$ |
| 1 ddP | $\begin{aligned} & \text { Integral/Derivative time } \\ & \text { decimal point position } \end{aligned}$ | 0： 1 second setting（No decimal place） 1： 0.1 seconds setting（One decimal place） | 0 |
| dこ月 | Defivativ gain | 0.11010 .0 | 6.0 |
| －HH | ON／OFF action differential <br> gap（upper） |  | $1^{\text {a }}$ |
| OHL | ON／OFF action differentia gap（lower） |  | $1^{\text {a }}$ |
| Robe | Action（high）at inputeror |  | 0 |
| RUnE | Action（ow）at inputeror |  | 0 |
| P5\％ | Manipulated output value at input error | 105．0 to＋105．0\％ | 0.0 |
| гп̄४ ： | Manipulated output value （MV1）at STOP mode | -5.0 to＋105．0\％ | －5．0 |
| гп̄แ己 | Manipulated output value （MV2）at STOP mode |  | －5．0 |
| orU | Output change rate limiter （up）［MV1］ |  | 0.0 |
| ad | （euthut change rate liniter |  | 0.0 |
| OLH | Output limiter high（MV1） | Output limiter low（MV1）to 005．0\％ | 105.0 |
| oll | Output limiter Iow（MV1） | －5．0\％to Ouput limiter high（MV1） | 5.0 |
| －rUz | Output change rate limite （up）［MV2］ | Same as Output change rate liniter［（u）［MV1］ |  |
| ord？ | Output change rate limiter （down）［MV2］ | Same as output change rate liniter（domm）［（VV1］ |  |
| oLH己 | Output linter high（MV2） | Output limiter low（WV）to 005．0\％ | 105.0 |
| alle | Outut timier low（MV2） | $-5.0 \%$ to Output limiter high（MV2） | 5.0 |
| d／P | Deivative action | 0 ：Measured value derivative 1：Deviation derivative | 0 |
| 45 | Undershoot suppression factor | 0.000 to 1.000 | ${ }^{1.000{ }^{\text {a }}}$ |
| dbPR | Deaaband position adiust | 0.0010 | 0.0 |

${ }^{4}$ Factory set value vaies depending on the instument specification．

| Symbol | Name | Data range | Factor set |
| :---: | :---: | :---: | :---: |
| F52． | Function blo | This is fisist parameler symbol ff funcion block 52. |  |
| AГb | At bias ${ }^{\text {b }}$ | －Input span to thnut span | 0 |
| Arc | AT cydes |  | 1 |
| ArH | AT differential gap time | 0.00 to 50.0 seconds | 10.0 |
| Aron | Output value with AT turned | Jutput value with AT Uumed offt 005．0\％ | 105.0 |
| Arof | Output value with AT umed | －105．0\％to Output value with AT tumed on | －105．0 |
| PLH | $\begin{array}{l}\text { Proportional band limiter（high）} \\ \text {［heat－side］}\end{array}$ | TC／RTD inputs： $0(0.0 .0 .00)$ Ito Inut span $^{\mathrm{b}}$（Unit：$\left.{ }^{\circ} \subset\left[{ }^{\circ} \mathrm{F}\right]\right)$ Vottage（ $\mathbf{V} /$ Curent（I）inputs： <br> 0.0 to $1000.0 \%$ of input span | Input span ${ }^{\text {a }}$ |
| PLL | Proportional band limiter（low） ［heat－side］ |  | $0^{\text {a }}$ |
| ILH | Integat imel initer（high） heatisidel | 0 to 3600 seconds or0.0 to 1999.9 seconds （Varies with the setting of the Integral／ Derivative time decimal point position） | 3600 |
| ILL | $\begin{array}{l}\text { Integral time limiter（low）} \\ \text {［heat－side］}\end{array}$ |  | 0 |
| dLH | Derivative time limiter（high） <br> ［heat－side］ |  | 3600 |
| dLL | Derivative time limiter（low） ［heat－side］ |  | 0 |
| $P_{\text {ct }}$ | $\begin{aligned} & \text { Proporional band linier (righ) } \\ & \text { [coolsidel } \end{aligned}$ | TC／RTD inputs： <br> 1 （0．1，0．01）to input span ${ }^{\text {b }}$（Unit：${ }^{\circ} \mathrm{C}$［ ${ }^{\circ} \mathrm{F}$ ） 0.1 to $1000.0 \%$ of ）inputs． <br> ．1 to $1000.0 \%$ of input span | Input span ${ }^{\circ}$ |
| PcLL | Proportional band limiter（low） ［cool－side］ |  | $1^{\text {a }}$ |
| 1 cLH | Integral time limiter（high） ［cool－side］ | Same as ntegrat ime liniter（ high）［heatside］ |  |
| I cll | Integral time limiter（low） ［cool－side］ | Same as Itegrat lime limier（ow）［heatside］ |  |
| deLH | Derivative time limiter（high） <br> ［cool－side］ | Same as Derivaive time liniter（high）［neatsisid］ |  |
| dctl | Derivative time limiter（low） <br> ［cool－side］ | Same as Derivaive time liniter（low）heatsidid］ |  |
| PRU | Proportional band adjusting factor［heat－side］ | 0.01 to 10.00 imes | 1.00 |
| 18」 | Integral ime adiusting factor ［heat－side］ |  | 1.00 |
| dRU | Derivative time adjusting factor ［heat－side］ |  | 1.00 |
| $P_{\text {c }}$ ¢ ${ }^{\text {U }}$ |  |  | 1.00 |
| I cfu | Integral ime adiusting factor ［coolside］ |  | 1.00 |
| dᄃAU | Deivative time a ajusting facto ［cool－side］ |  | 1.00 |
| F53． | Function look 53 | This is fist parameler symbol of Funcion block 53. |  |
| 4 d | Opencliose ouputneutral Oone | 0．1to 10．0\％of ouput | 2.0 |
| SH5 | Open／Close output differential gap | 0．110 5．0\％of output | 1.0 |
| צbr | Action at feedback resistance <br> （FBR）input error | 0：Action depending on the valve action at STOP <br> 1：Control action continued | 0 |
| Pos | Feedback adissment | At the Feedback adjustment screen，press the shift key for 5 seconds to start the adjustment． | － |
| nor | Control motor time | 5 to 1000 seconds | 10 |
| oLA | Integrated ouputi tinter | 0.0 to 200.0 \％of control motor time 0．0：Integrated output limiter function OFF This value becomes invalid when Feedback stance（FBR）input is used | 150.0 |
| HRL | Vave action at STOP |  | ${ }^{0}$ |
| 4850 | Action | 0：Invalid | 0 |
| F54． | Funcioon block 54 | This is fisis parameler symbol of Funcion block 54. |  |
| $5\ulcorner 5$ | ST start condition |  | 0 <br>  |
| 5гP | ST proportional band adjusting factor | 0.01 to 10.00 itimes | ${ }^{1.00}$ |
| 5「14 | ST integral time adjusting factor |  | 1.00 |
| 5 Cd | ST definative tine adiusting factor |  | 1.00 |
| F55． | Function block 55 | This is fisis parameler symbol of function block 55. |  |
| CHrE | Automatic temperature rise group | 01016 <br> （ 0 ：Automatic temperature rise function OFF） | 0 |
| r5］ | RUNSTOP group | 0 Ot 16 （0：RUNSSTOP group function OFF） | 0 |
| chrd | Automatic temperature rise <br> dead time | 0.1101999 .9 seconds | 10.0 |
| ［Hri | Automatic temperature rise gradient data | 0.10 o Input spar／minutes | 1.0 |

at Factor set value vaies depending onthe instuments specificaiio
0
0
0

| Symbol | Name | Data range | Factor set |
| :---: | :---: | :---: | :---: |
| F60． | Funcion block 60 | This is fisist parameler symbol of funcion block 60 ． |  |
| ［ñp ； | Communicaion 1 protocol | 0：RKC communication 1：Modbus 2：Intercontroller communication ${ }^{\text {b }}$ | $0^{\text {a }}$ |
| ［ก̄P？ | Communication 2 protocol | o：RKC communication 1：Mocbus 2：Intercontroler communication | 2 |
| F70． | Function block 70 | This is first parameier symbo of Funcioin block 70. |  |
| 54 ¢ 5 | Setting change rate limiter unit time | 1036300 seconds | ${ }^{60}$ |
| 5rdp | Soak ime unit | 0：0 hours 00 minutes to 9.0 mours 59 minutes 1： 1 minutes 00 seconds to 199 minutes 99 seconds 199 minutes 59 seconco | 1 |
| F7 1. | Function block 71 | This is fists parameler symbol of funcioon block 71. |  |
| 5LH | Seting linier I high | Setting limiter low to Input scale high （Varies with the setting of the Decimal point position） | $\begin{aligned} & \text { nnput scale } \\ & \text { night } \end{aligned}$ |
| 5LL | Seting liniter Iow | Input scale low to Setting limiter high （Varies with the setting of the Decimal point position） | ${ }_{\text {ln }}^{\text {Input scale }}$ |
| F9 | Function block 91 | This is fist parameler symbol ff funcion block 91. |  |
| ［492 | RoM vesision monitor | Display the evesion of foaded software． |  |
| ur | Integrated operating time monitor | 0to 19999 hours | － |
| 「［U | Holding peak value ambien temperature monitor | -10.00 ＋$+10.00^{\circ} \mathrm{C}$ |  |


Tale $1:$ iligital input（Di）assignment
Setvivel









