

\* For program function , please contact the distributor

	Paran	neter	DESCRIPTION	RANGE	Initial value	
	ρy	Pv	Process value	LoSP~HiSP		
	52	Sv	Set value	LoSP~HiSP	0.0	
	uSEr V					
	Outl	OutL	Output percentage	0.0~100.0%	0.0	
	RE	At	Auto tuning	No/yes	no	
	ñ8n	Man	Manual mode	Man1 =power failure memory Man2 = no memory	no	
	RL 15	AL1S	Alarm 1 set value	LIF set at 1 or 2 range=-200~200 LIF set at 3 or 4 range=Losp~Hisp	10.0	
	RL IL	AL1L	Alarm 1 lower set value	If ALIF set at 10 range =1-8 segment ending	10.0	
	<u> </u>	AL1u	Alarm 1 upper set value	→ =0~200 → =0~200	10.0	
	<i>RL2</i> 5	RL 35	AL2S / AL3S For operating	functions refer to the above des	criptions	
	SoRe	SoAK	Perform only when ALM1 set at 8 of	9 0.00~99.59 (h.m)	0.00	
	r RAP	rAmP	Ramp	0.0~200.0/m PV*Pvrr	0.0	
	PYoF	PvoF	Pv offset	-200~200 (>1) PV	0.0	
	Pyrr	Pvrr	Pv ratio	0.001~9.999 0	1.000	
	SYof	SvoF	Sv offset	-200~200	0.0	
	٢Ŀ	Ct	Current transformer monito	r 0.0~100.0A		
	нья	HbA	Heater break alarm time	0.1~100.0A	0.1	
	L 6 8	LbA	Control loop break alarm time	0.1~200.0 min	8.0	
	Lbd	Lbd	LBA dead band	0.0~200.0	0.0	
*	rPtā	rPtm	Repeat times monitor	1~1000		
	Entl			-	•	
	Ρ (	P1	Output 1 proportional band	0.0~3000	30.0	
	. 1	i1	Output 1 integral time	0~3600	240	
	d	d1	Output 1 derivative time	0~900	60	
	E E 1	Ct1	Output 1 cyclic time	0~150	15	
	85E 1	HSt1	Output 1 hysteresis	0.0~200.0	1.0	
	REof	AtoF	At offset	-200~200	0.0	
	8r	Ar	Anti-reset windup	0~100.0% SV-P1 x Ar	100.0	
	P 2	P2	Output 2 proportional band	0.0~3000	30.0	
	5,	i2	Output 2 integral time	0~3600	240	
	92	d2	Output 2 derivative time	0~900	60	
	683	Ct2	Output 2 cyclic time	0~150 100%	15	
	X522	HSt2	Output 2 hysteresis	0.0~ 200.0 0%	0.0	
	db	db	Dead band/overlap	-200.0~ 0 + + 200.0 heating cooling	0.0	
	552	SSv	Soft start set value	0.0~200.0	120.0	
	Sout	Sout	Soft start output percentage	0.0~100.0%	30.0	
	5678	StmE	Soft start failed time	0~10 min	10	
	ru[Y	ruCy	Motor valve cyclic time	1~150 sec	5	
	rPE	rPt	Program executing times	1~1000 CoLd = manual	1	
*	5 <i>2.82</i>	StAt	Start mode selection rSE Hot	F=start after power ON =start from memory of power failure	CoLd	
*	P 2 5 8	PvSt	Start point selection	RSEt = start from 0 Pv = start from PV	rSEt	
*	<u>58 it</u>	wAit	Wait value in program	0.0~200.0	0.0	
*	P id	Pid	PID/Level PID selection	Pid =Pid Lpid =Level Pid	Pid	
*	EndP	EndP	Selects control when program ended	Cont = Continue StoP = One program only	StoP	

Paran	neter	DESCRIPTION	RANGE	Initial value
0.5				
RL IF	AL1F	Alarm 1 action function	0~12 (see Fig 1)	1
RL IH	AL1H	Alarm 1 hysteresis	0.0~200.0	0.0
RL IE	AL1t	Alarm 1 in program mode on time	0.00~99.59 (h · m)	0.00
81 15	AL1m	Alarm 1 special mode selection	(see Fig 2)	0
For opera Different f RL 2F RL 3F	ting fun unction AL2F AI3F	ctions refer to the above descripti see(1),(2),(3) (1)AL2M Alarm 2 special (2)AL3F Alarm 3 action fu (3)AL3M Alarm 3 special	ons mode selection (See Fig 2 ) Inction (See Fig 1 ) mode selection (see Fig 2 )	) 0~7 ) 0~11 ) 0~7
Ret	Act	Control action selection	CooL / HEAt	HEAt
0 IL S	01LS	Output 1 scale low	0.0~100.0%	17.6
0 IKS	O1HS	Output 1 scale high	0.0~100.0% Pv=transmit PV Sv=transmit SV	96.0
RD	AO	Analog output selection	dEv=transmit (PV-SV) Mv=transmit output percentage	Pv
0215	O2LS	Output 2 scale low	0.0~100.0%	17.6
02HS	O2HS	Output 2 scale high	0.0~100.0%	96.0
E 155	t1SS	Time signal 1 start segment setting	1~8	1
E 10 A	t1On	Time signal 1 on time setting	0.00~99.59 (h \ m)	0.01
185	t1ES	Time signal 1 end segment setting	1~8	1
<u>t 10F</u>	T1oF	Time signal 1 off time setting	0.00~99.59 (h、m)	0.01
2255	t2SS	For operating functions refer	to the above descriptions	5
in P		7		
inP I	inP1	Input 1 selection	(see Fig 3)	К2
LoSP	LoSP	Low setting limit	LOSP~HISP	0.0
H .SP	HiSP	High setting limit	LOSP~HISP	400.0
LoRn	LoAn	Analog input range low	-1999~9999	0.0
H .8n	HiAn	Analog input range high	-1999~9999	100.0
RILS	A1LS	Analog input 1 scale low	0~FFFF	
RIHS	A1HS	Analog input 1 scale high	0~FFFF	
unit	unit	Unit selection	°C/°F/non	°C
dР	dP	Decimal point	0/0.0/0.00/0.000	0.0
Filt	FiLt	Digital fitter	0.001~ Non = no function 1.000 Ct = use for heater	0.200
1082	inP2	Input 2 selection	break alarm rmSV= use for remote SV	non
RZLS	A2LS	Analog input 2 scale low	0~FFFF	
RZHS	A2HS	Analog input 2 scale high	0~FFFF	
			a l <mark>≪d</mark>	



Dimension

	_	-					•		Unit:mm
MODEL	А	В	С	D	Е	а	b	с	d
H-D96Q	96	96	10.5	83	90	91 <sup>+0.5</sup>	91 +0.5	120	120
H-D72	72	72	10.5	83	67	68 +0.5	68 +0.5	100	100
H-D96W	96	48	10.5	83	43	91 <sup>+0.5</sup>	46 +0.5	70	120
H-D96H	48	96	10.5	83	90	46 +0.5	91 <sup>+0.5</sup>	120	70
H-D48	48	48	10.5	83	45	46 +0.5	46 +0.5	70	70

## Fig1.Alarm Mode Selection (usedin parameterAL1F,AL2F,AL3F)

AL1F	AL2F	AL3F	Alarm function selection		
0	0	0	No alarm		
1	1	1	Deviation high alarm	OFF ON PV	
2	2	2	Deviation low alarm	ON OFF PV	
3	3	3	Absolute high alarm	OFF ON PV	
4	4	4	Absolute low alarm	ON OFF PV	
5	5	5	Deviation high/low alarm	SV-AL1L	
6	6	6	Band alarm	SV-AL1L OFF ON OFF PV	
7	7	7	System failure alarm (when	error information happen)	
8	8	8	Loop break alarm		
9	9	9	Heater break alarm		
10	10	10	Segment ending alarm in program control		
11	11	11	Program ending alarm in program control		
12	12	$>\!\!\!\!>$	Time signal alarm		
13	13	>	Program running alarm in program control		

## Fig 2. special alarm function selection (used in parameter AL1M, AL2M, AL3M )

AL1M	AL2M	AL3M	Special alarm mode selection	
0	0	0	Normal	
1	1	1	Alarm with normal-close contact	
2	2	2	Latch	
З	3	3	Alarm with normal-close contact and latch	
4	4	4	Alarm with inhibit	
5	5	5	Alarm with inhibit and normal-close contact	
6	6	6	Alarm with inhibit and latch	
7	7	7	Alarm with inhibit, normal-close contact and latch	
8	$\times$	$\times$	Alarm with on-delay timer	
9	$\times$	Х	Alarm with on-delay timer but normal-close contact	
10	$\times$	$\times$	Alarm with soaking timer	
11	$\succ$	$\ge$	Alarm with soaking timer but normal-close contact	

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## Error information

External terminal

T/R A+ T/

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H-D48

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Display	description
in 18	Input 1 error
8d[F	A/D converter failed
5 J E E	Cold junction compensation failed
15 ni	Input 2 error
PYBlinks	PV exceeds set Ranges
r 8ñF	Ram failed
intE	Interface failed
Butt	Auto tuning failed

H-D72

## Available terminal Isolated tube





Fig 4. (used in parameter InP1) input & temperature ranges selection TYPE °C 0-

	U	
K1	0~200	32~392
K2	0~400	32~752
K3	0~800	32~1472
K4	0~1000	32~1832
K5	0~1200	32~2192
j1	0~200	32~392
j2	0~400	32~752
j3	0~800	32~1472
j4	0~1000	32~1832
j5	0~1200	32~2192
t1	-50~50	-58~122
t2	-100~100	-148~212
t3	-200~400	-328~752
r	0~1700	32~3092
E	0~1000	32~1832
S	0~1700	32~3092
b	0~1800	32~3272
n	-200~1300	-328~2372
Pt1	-50~50	-58~122
Pt2	0~100	32~212
Pt3	0~200	32~392
Pt4	0~400	32~752
Pt5	-200~600	-328~1112
jPt	-200~500	-328~932
Lin	-1999~9999	)

**\***They are used in programmable mode only