

Model 9200 Programmable Dual-loop Controller



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Cut-out Size: 7.40" W X 5.56" H

9200

()
031 - 488 - 8123

Model 9200 Programmable Dual-loop Controller

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Model 9200 Programmable Dual-loop Controller

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Model 9200 Programmable Dual-loop Controller

Safety

- - 가 , :



()



RFI filters

- - .
- - 가



- : - .
- - . AC

()
IEE wiring regulations, (BS7671)

NEC Class 1

- 가 - 가
- - RFI Filtering 가 0.5mA
가 (RCD) or
, (GFD)
- - 가 가 PCB , the AC
power supply to the controller AC
- - 264VAC
- .
- 3 , DC
- .

264vac

Model 9200 Programmable Dual-loop Controller

(가) , (%) .

9200 (PID)

9200 24VDC
 . 24 VDC 가



	2.75" x 4" x 4.5"
	24VDC, 4 Watts
	300VAC / 1 AMP
	1000 Ohms (Total)
	IP10 – hand protected
RS232	One (1)
	One (1)
	One (1)
RS485	Two (2)
	Eight (8)
	Three (3)
	Two (2)
	Four (4)
	Three (3)

SSI 9200 (,%C) , (,) 3 (, % ,)

Model 9200

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(800) 666-4330

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1 - 24VDC (COM)	12 - RELAY OUT 5	22 - SLAVE 2 RS485 (+)
2 - 24VDC (+)	13 - RELAY OUT 6	23 - SLAVE 2 RS485 (-)
3 - RS485 RT (-)	14 - RELAY OUT 7	24 - 4-20mA OUT 1 (-)
4 - RS485 RT (+)	15 - RELAY OUT 8 NC	25 - 4-20mA OUT COM (+)
5 - SLAVE 1 RS485 (-)	16 - RELAY OUT 8 NO	26 - 4-20mA OUT 2 (-)
6 - SLAVE 1 RS485 (+)	17 - DIGITAL IN 1	27 - ANALOG IN 3 (-)
7 - RELAY COMMON	18 - DIGITAL IN 2	28 - ANALOG IN 3 (+)
8 - RELAY OUT 1	19 - DIGITAL IN 3	29 - ANALOG IN 2 (-)
9 - RELAY OUT 2	20 - DIGITAL IN 4	30 - ANALOG IN 2 (+)
10 - RELAY OUT 3	21 - DIGITAL IN COM	31 - ANALOG IN 1 (-)
11 - RELAY OUT 4		32 - ANALOG IN 1 (+)

Model 9200 Programmable Dual-loop Controller

가

9200

()

가

가

(#9)

CD SSI SUPER DATA (SD)

SD

Windows®

(

Windows 98®

9200

).

가

가

가

9200

가

가

WINDOWS 98®

가

IP

192.168.1.200

800-666-4330

SCADA

800-666-4330

9200

가

가

24 VDC

DIN

(

9200

9200 24VDC, 4 , 60 Hz,
9200

A 24 VDC

60 and 265VAC

9200

가

가

가

SSi :

MOV's
MOV's
MOV's

HOT NEUTRAL

가...

On , 32



가 가 "ON"

가

OFF) " " 가 가 (

Microsoft Windows 가

가 가 가

ON

가
10

"blanks"

Chapter 1 –

9200 8
DIN SSI 10
DIN
: 7.40"W X 5.56"H

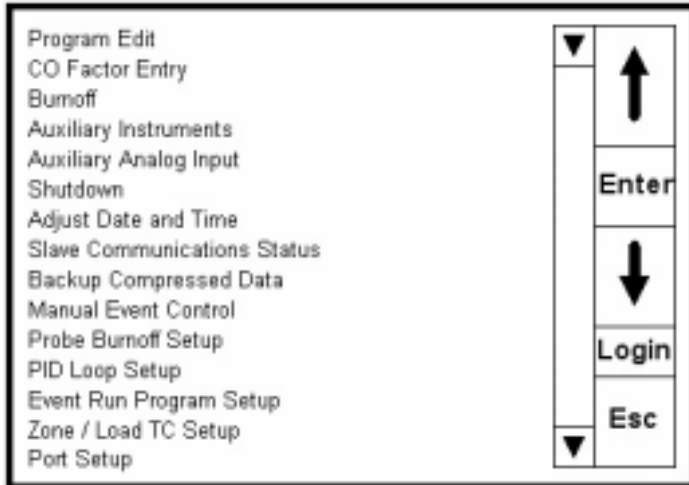


가 가
6 : , , ,
SSi

- % 가 가
- UP DOWN
-
-

9200

가



- 가
- 가
- 가
- 가
- 가
- 가
- 가
- IP
- 가
- 가
- 가
- /

Model 9200 Programmable Dual-loop Controller

-
- PID 가
- 가
- AI

9200 가 .
가 . 1 2
2 .
, 1 2 가 1 2 .
가 . UP
, DOWN
, Login , Esc

-
-
-
-
-

mV's, T/C, 가

Burnoff Display	
Parameter	Value
Burnoff	0
Impedance Test	0
Next burnoff in	868 min
Test status	idle
Timer (sec)	0
mV	0
TC	0
Start mV	0
Start TC	n
Last Burnoff	3/9/05 5:52:03 PM
Last Imp. Test	Invalid Date Time
Last Recovery	0 Sec

9200

Auxiliary Instruments	
Instrument	PV
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	n
10	0
11	0
12	0

Model 9200 Programmable Dual-loop Controller

, Waukee-Tronic

Auxiliary Analog Input	
Mdi	Value
Input 1	1140
Input 2	1654
Input 3	985
1	
2	
3	
4	
5	
6	
7	
8	
CJ	

가 가 9200
 . ADVANTECH , 9200
 IP

: ADVANTECH () 가 9200

가

Login

"2")
 Configuration

가 9200

가 (

Chapter 2 –

가

OK	Batch 1				Soak Adjust
Program 1	Status: Stopped		0:00		Load
Remaining Time	Step: 0:00	Total: 0:00			
1	SETPT	1750		wait	Stop
2	SETPT	1700	1.00	wait	
3	SOAK			1:00	
4	EVT-OUT			3-ON	Hold
5	SETPT	1600		wait	
6	DELAY			10	Cont
7	EVT-OUT			3-OFF	
8	SETPT	1600	0.80	wait	Alm Ack
9	SOAK			0:30	
10	EVT-OUT			1-ON	Esc
11	ALARM			1	
12	EVT-OUT			1-OFF	

ALM

가 가

6가

() Esc.

가 가

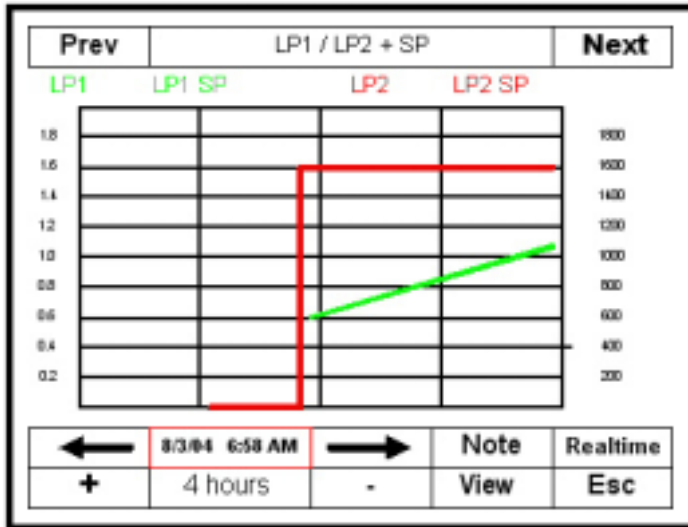
가

가

가

OPT CODE

15 7
 (72) 가
 LP1 LP2 가 LP1 LP2
 가 PREV NEXT



Prev Next 가 . ()
 RIGHT LEFT
 + - 가 가
 Note 가 9000
 ADVANTECH 5.7- ID 가 가
 Note <- Enter 가 가
 <- Enter 가 가
 .OK
 Realtime 가
 View NOTES

Model 9200 Programmable Dual-loop Controller

9200

Advantech TPC-642S/642-SE

SSi

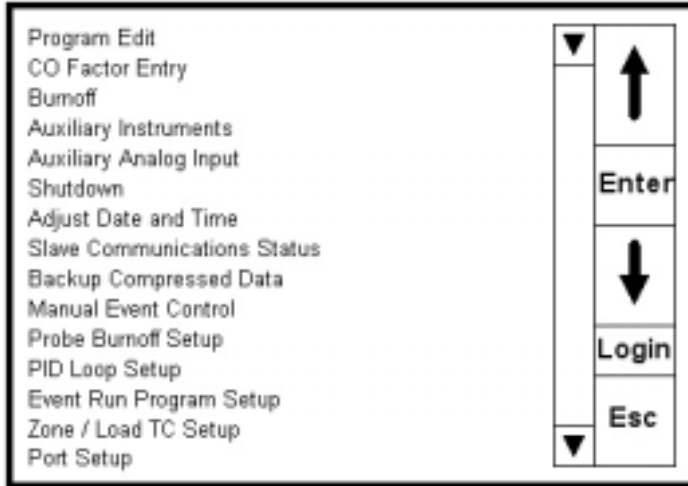
가 , 가 가

1. ADVANTECH 가 "x%(3%) 5%
ALM 9200 5%
2. 2%
3% 가 3%가 가가
가 "Overwriting data log data!"가 , 2% 3%

1. 3%가 가
2. 가 ()
3. 가 (, 9200)



NOTE:



Login 6- 가 가

Program Edit 가
 / 0 가 (0) ERASE/DELETE 0 NO-OPT
 가

: OPCODES
 :
 OPCODE SOAK
 TIME 3:45
 opcode and soak Enter 가 opcode
 opcode
 Enter
 Hour
 Min

Model 9200 Programmable Dual-loop Controller

가

Esc

0

Enter 가

Set

Cancel

Set

가

Save

Esc

CO

Login (

"2")

CO Enter Series 9200 CO

Enter 가

CO CO Enter

CO CO NO Esc

COF shim stock controller

가 가 CO COF 가 ---

% 가 가 CO 가

가 가 (CO 가

(가)% 가

Esc

Model 9200 Programmable Dual-loop Controller

Login

("2")

:

:

,가

,가

Enter

Model 9200 Programmable Dual-loop Controller

(가)

9200

(가)

)

()

9200

가

" "

9200

Enter

Enter

9200

[(, ,),]가

Set

Enter

Min

가

Hour

가

가 Set

Cancel
가

24 ()

Cancel

Model 9200 Programmable Dual-loop Controller

Enter

4 가 가 가

- N/A -
- Bad -
- ??? -
- ?OK -
- OK -



가

가

Enter

가

Enter

Manual Event Control		
Event	Status	
0	off	<div style="text-align: center;">  Enter  Esc </div>
1	off	
2	off	
3	off	
4	off	
5	off	
6	off	
7	off	
8	off	
9	off	

Enter

가

Esc

Model 9200 Programmable Dual-loop Controller

Enter

:

(), (), (),

IN 3 . 800 가

3

가 Enter 가 Enter

Enter Esc

PID (.....)

PID Enter 1 (%

), 2 ()

가

PID 1 2 9200

Enter Enter

가 , Pct (), , SP

() , 0 , Pct

Enter

Enter

:

OFF 가 가 , PID 가

가 PB((I) (D) %)

가

80%

1500

1700 - % 100% , PID

PB , %

Model 9200 Programmable Dual-loop Controller

% 80% , PID .

가 , PB 가

가 . (E.g. 가 1700 50% .)

40% PB , 40% PB

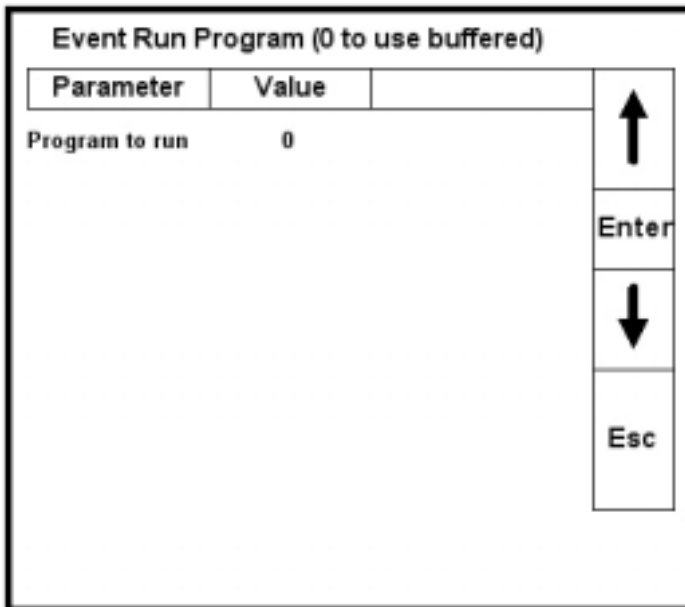
1(%) 2() PID

1	PID	2	PID
:	20	:	4.0
:	.10	:	0.10
:	0	:	0
:	16	:	60

Cancel

.Esc

Event Run Program (0) Enter .



Model 9200 Programmable Dual-loop Controller

: SSI(800-666-4330)

Enter

Host 232 Baud	TPC-642S
Host 232 Mode	Modbus
Host 485 (3,4) Baud	19200
Host 485 (3,4) Mode	Modbus
Host 485 (3,4) Address	1
Slave 1 (5,6) Baud	19200
Slave 1 (5,6) Mode	Modbus
Slave 2 (22,23) Baud	9600
Slave 2 (22,23) Mode	ADAM

Enter

, Enter

.Cancel

: ssi(800-666-4330)

Enter

가

Enter

- SSi AC20
- Yokogawa 750
- Honeywell UDC3300
- Dualpro 1 Modbus
- Dualpro 2 Modbus
- Dualpro 1 MMI
- Dualpro 2 MMI
- Eurotherm 2404
- Eurotherm 2500
- Carbpro v3.5
- Carbpro v3.0
- CarbPC
- 9200 Loop 1
- IR Base

- SSi 7EK
- Yokogawa 750
- Honeywell UDC3300

Model 9200 Programmable Dual-loop Controller

- Dualpro 1 Modbus
- Dualpro 2 Modbus
- Dualpro 1 MMI
- Dualpro 2 MMI
- Eurotherm 2404
- Eurotherm 2500
- Unipro v3.5
- Unipro v3.0
- Carbpro v3.5
- Carbpro v3.0
- 10Pro
- DualPro IN C
- 9200 LP1
- 9200 LP2
- 9200 LP3
- 9100 LP1
- Eurotherm 2704 Ip1
- Eurotherm 2704 Ip2
- Eurotherm 2704 Ip3
- VC BASE 1
- VC BASE 2
- VC BASE 3
- VC BASE 4
- AIPC

:

- SSi AC E
- Yokogawa 750E
- Mod Mux
- Dualpro E Modbus
- Dualpro E MMI
- Carbpro E v3.5
- Carbpro 2 v3.0
- Eurotherm 2500
- SSi 8-8
- 9200E
- Micrologox PLC

Model 9200 Programmable Dual-loop Controller

, SSI AC20,

Instrument 1		▲	▲
Instrument 2		■	▲
Instrument 3			
Instrument 4			▼
Instrument 5		▼	▼
Parameter	Value		
Controller	SSI AC20		▲
Port	Slave 1		
Address	0		Enter
*Assignment			
Atmosphere			▼
Temperature			
Events			
Quench			Esc

Enter

가

.0

Esc

Model 9200 Programmable Dual-loop Controller

Enter

Furnace Setup	
Parameter	Value
PVT Type	% Carbon
Nitrider Mode	N/A
H2 Cell Type	N/A
H2 RS-232 Comms	N/A
Temp Display	N/A
LP3 Control	N/A
N2 Value	N/A
NH3 Value	N/A
D. A. Value	N/A
Aux. Value	N/A
Temperature Mode	F.
Programmer	

▲

↑

Enter

↓

▼

Esc

PVT

Enter

% Carbon
Dew Point
% O2 (Oxygen)
Millivolts
Multi-loop
Vacuum
IR + Probe
Nitrider
% Carbon with dual temp

Enter

가

ESC

Model 9200 Programmable Dual-loop Controller

Enter

Parameter	Value
Temperature Wait Limit	15 °
Atmosphere Wait Limit	0.10 % Carbon

)

Enter
Enter

ESC

ESC

Enter

Parameter	Value
Furnace Name	??????????????
PV1 Name	Temperature
PV2 Name	Temperature
PV3 Name	Temperature

Enter

가

Enter

ESC

Model 9200 Programmable Dual-loop Controller

Enter

- Loop 1 fwd
- Loop 1 rev
- Loop 2 fwd
- Loop 2 rev
- Loop 3 fwd
- Loop 3 rev
- Programmer alarm
- Alarm 1
- Alarm 2
- Alarm 3
- Event 0 through Event 15
- Burn off
- IN 1 Relay SP A
- IN 1 Relay SP B
- IN 1 Relay SP C
- IN 2 Relay SP A
- IN 2 Relay SP B
- IN 2 Relay SP C
- IN 3 Relay SP A
- IN 3 Relay SP B
- IN 3 Relay SP C

1 8

Esc

Enter

가

가

Relay On/Off Setpoints	
Parameter	Value
Relay ON SP for IN1 A	0
Relay OFF SP for IN1 A	0
Relay ON SP for IN1 B	0
Relay OFF SP for IN1 B	0
Relay ON SP for IN1 C	0
Relay OFF SP for IN1 C	0
Relay ON SP for IN2 A	0
Relay OFF SP for IN2 A	0
Relay ON SP for IN2 B	0
Relay OFF SP for IN2 B	0
Relay ON SP for IN2 C	0
Relay OFF SP for IN2 C	0
Relay ON SP for IN3 A	0

▲

↑

Enter

↓

Esc

▼

Model 9200 Programmable Dual-loop Controller

가 IN? SP? (?)

Esc

Model 9200 Programmable Dual-loop Controller

Enter

1

1

Enter

PLC

PV1(1-%C)

. Enter

1

2

. Enter

Parameter	Value
Assignment	
Offset	
Range	

Esc

NC/NO

Enter

:

Parameter	Value
Level 1 Code	1
Level 2 Code	2
Web Level 1 Code	111
Web Level 2 Code	222
No Alarm	Contact is Open (NO)
Web Change Enable	1

Alarm Text Setup

Alarm 0 User Alarm 0

.....

Alarm 99 User Alarm 99

NO ALARM

NO

NO ALARM

Contact is Closed

, 0

.Enter

Enter

1
Contact is Open

NC 760°

가 Enter
가

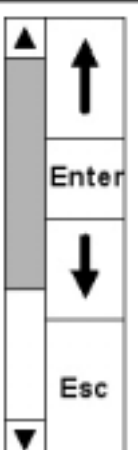
가 Enter

가 Esc

0 99

Enter

Parameter	Value
Filter Factor	0
9200 Program Alarm	off
9200 Alarm 1	off
9200 Alarm 2	off
9200 Alarm 3	off
Digital Input 0	off
Digital Input 1	off
Digital Input 2	off
Digital Input 3	off
Digital Input 4	off
Digital Input 5	off
Digital Input 6	off



가

Model 9200 Programmable Dual-loop Controller

Enter

Create Programmer Backup Image Backup

Restore Programmer from Image ▾

NOTE: Communications parameters are not modified

Restore

Backup Chart Comments to Network Backup

Factory Defaults SFD Preserve Done

9200

SD

Done



Calibrate Cold Junction

Enter temperature of terminal

Enter

Edit

가
Done Calibrated Calibrate
CJ : XX.X C° 가

Next

-> 가

Save Recipes to Disk

From

To

Load Recipes from Disk

From Flash

To

Model 9200 Programmable Dual-loop Controller

Model 9200 Programmable Dual-loop Controller

가 2 : XX.X UV

Next -> 가 :

Span input 2 range 2

Enter span voltage (sugg. 65.00 mV)

Edit 2- 가
29(-) 30(-) 17.500 mV 가
가 **Calibrate** .Calibrate
Done

가 2:XX.X UV

Next -> 가 :

Zero Output 1

Enter span output current (mA) **Calibrate**

Edit

<-- Back**Skip****Next -->****DONE**

Edit 1 가 .
24(-) 25(-) .
가 Calibrate . Calibrate
Done

Next -> 가 :

Span Output 2

Enter measured output current (mA) **Calibrate**

Edit

<-- Back**Skip****Next -->****DONE**

Edit 26(-) 25(-) 2 가
Calibrate Done 가 Calibrate
Next -> 가 Done
가

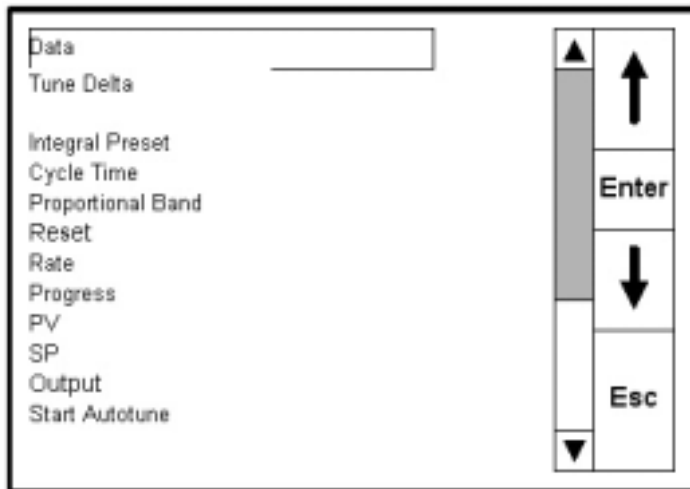
SSi



Select

Loop 1

:



가?

Enter

Curve 1		▲	↑
Curve 2		■	↑
Curve 3			
Curve 4			↓
Curve 5		▼	
Parameter	Value		
Curve Type			↑
Control Range			Enter
mV 1			
VAC 1			↓
mV 2			
VAC 2			
mV 3			
VAC 3			Esc

SSi

Esc

Model 9200 Programmable Dual-loop Controller

PID

Enter

PID 1		▲	↑
PID 2		■	↑
PID 3			
PID 4			↓
PID 5		▼	↓
Parameter	Value		
Proportional Band	-0.1	↑	
Reset	0.00	Enter	
Rate	0.00	↓	
Integral Preset	0	Esc	
High Limit	100		
Low Limit	-100		

PID's

16

가

PID

PID

Enter

PID

(

Enter)

, Enter

가

Enter

. Esc

PID

Esc

SSi

AI

SSi

Chapter 3 –

9200
 9200 12 300 가
 가
 가
 12 가
 가

Menu

(SSi 2) 가
 가 ; Enter
 가 Enter
 Enter 가 가
 가
 Clara
 가
 :

S	Opcode	Tmp	Atm	Option	
1	SETPT	1700		wait	↑
2	SETPT	1700	1.00	wait	Enter
3	SOAK			2:30	
4	EVT_OUT			3-ON	↓
5	SETPT	1600		wait	
6	DELAY			3	Save
7	EVT_OUT			3-OFF	
8	SETPT	1600		wait	
9	SOAK			1:00	
10	EVT_OUT			1-ON	Esc
11	ALARM			1	
12	EVT_OUT			1-OFF	

Model 9200 Programmable Dual-loop Controller

Enter

Parameter	Value	
Opcode	SOAK	↑
		Enter
Time (hh:mm)	1:00	↓
		Set
		Cancel

Enter

가

Set

가 가

, Save

Cancel

9200 /

가

NO-OP

12

ALARM

99

ATM_INQ

-
-
-

10 (0.10)

- SET_WAIT
- The LIMIT
- A BRANCH

BRANCH Branch

가

가

가

DELAY

Model 9200 Programmable Dual-loop Controller

DEV_AL ON OFF

- OFF,
-
-
-
- *SET_WAIT*

DOW_INQ . . . SUN, MON, TUE, WED, THU, FRI, and SAT.

EVT_IN ON OFF ON OFF

EVT_OUT OFF ON OFF ON

G_Ramp

SET_WAIT

G_SOAK soak 가 soak soak *SET_WAIT*

G_SOAK High soak soak soak *SET_WAIT* soak

G_SOAK Low soak soak *SET_WAIT*

GOSUB

8

GOSUBs

HIGH_AL 가

HIGH_PO 가

Model 9200 Programmable Dual-loop Controller

ID_SET ID ID

ID_INC ID 가 가

ID_INQUIRY ID
LIMIT .*BRANCH*

JUMP JUMP 가 가

LIMIT

LOW_AL 가

LOW_PO 가

MV_INQ 가

•
 •
 •

LIMIT 가
A BRANCH 가 가

PID Select PID 1, 2 PIDS 3 PID's PID

PO_INQ

•
 •
 •

LIMIT 가
A BRANCH 가 가

Chapter 5 - APPLICATIONS INFORMATION

9200 MMI

7 16, 2004

9200 Dualpro 가 MMI FDP VER. 3. X 가
 31 0 0 0,1,6,7 8 가
 9200 Dualpro 가
 0

9200 :
 12 31
 9
 0 3 가

24 () 24 Modbus .0
 3 72, 1 2 가 48
 100 24 1 900
 가 12 9200

7 7 가
 PF1 CO
 PF2 H2
 Ref Num ID num
 1 Loop 1
 2 Loop 2
 1 1
 2 2
 (P) SSI f 가

Model 9200 Programmable Dual-loop Controller

9200
August 17, 2003.

Rev August 6, 2004

Values independent of PV type

Parameter	Default	Factory Setting	Customer Setting
RS-232 Host baud	19200		
RS-232 Host Mode	Modbus		
RS-485 Host baud	19200		
RS-485 Host Mode	Modbus		
RS-485 Slave 1 baud	19200		
RS-485 Slave 1 Mode	Modbus		
RS-485 Slave 2 baud	19200		
RS-485 Slave 2 Mode	Modbus		
Pass code 1	1		
Pass code 2	2		
Web code 1	111		
Web code 2	222		
Web change enable	yes		
PV 1 Name	Temperature 1		
PV 2 Name	Temperature 2		
PV 3 Name	Temperature 3		
AD 1 filter time	0		
AD 2 filter time	0		
AD 3 filter time	0		
AD 4 filter time	0		
IN 1 initial scale	0		
IN 1 Full scale	1000		
IN 2 initial scale	0		
IN 2 Full scale	10000		
IN 3 initial scale	0		
IN 3 Full scale	10000		
IN 4 initial scale	0		
IN 4 Full scale	10000		
IN 1 Decimal place	0		
IN 2 Decimal place	0		
IN 3 Decimal place	0		
IN 4 Decimal place	0		
Burn off time	90 secs		

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Values independent of PV type

Parameter	Default	Factory Setting	Customer Setting
Burn off recovery wait	120 secs		
Burn off Interval	720 minutes		
Burn off min MV	800		
Burn off max temperature	2000		
CO factor	200		
H factor	400		
Event hold	none		
Event hold polarity	all N.O.		
Hold instrument	none		
Hold PV min	0		
Hold PV max	2000		
Event run	None (-1)		
Event reset	None (-1)		
Slave Instrument setups	None		
Zone Assignments	None		
SPP ATM instrument	Internal loop 1		
SPP Temperature Inst	Internal loop 2		
SPP Event instrument	Internal		
Quench instrument	Loop 3		
Quench events			
Temperature default wait limit	15		
Atmosphere default wait limit	10		
IP address	192.168.1.200		
IP net mask	255.255.255.0		
IP gateway	192.168.1.1		
Temperature mode	Fahrenheit		
Loop 1 setpoint	0		
Loop 1 prop band	20		
Loop 1 reset	0.1		
Loop 1 rate	0		
Loop 1 cycle time	16		
Loop 1 auto/manual	auto		
Loop 1 integral preset	0		
Loop 2 setpoint	0		
Loop 2 prop band	4		

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Loop 2 reset	0.1		
Loop 2 rate	0		
Loop 2 cycle time	60		
Loop 2 auto/manual	auto		
Loop 2 integral preset	0		

Values independent of PV type

Parameter	Default	Factory Setting	Customer Setting
Loop 3 setpoint	0		
Loop 3 prop band	4		
Loop 3 reset	0.1		
Loop 3 rate	0		
Loop 3 cycle time	16		
Loop 3 auto/manual	auto		
Loop 3 integral preset	0		
IR RH cutoff	101%		
IR CO span gas	20%		
IR CO2 span gas	1.00%		
IR CH4 span gas	5.00%		
IR mode	monitor		
IR min temperature	1400		
IR min MV	1000		
IR ON delay	10 sec		
IR OFF delay	10 sec		
IR max adjust	10		
IR max factor	300		
IR min factor	100		
IR update time	5 min		
IR MV action	turns off sample only		
IR temperature source	probe temperature		
IR shim factor	150		
IR CH4 factor	65		
IR CO adjust factor	200		

Model 9200 Programmable Dual-loop Controller

_____ - % (_____)

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- Event 0
- Event 1
- Event 2
- Event 3
- Event 6
- Event 7

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Step No	OPT CODE	TEMP	ATM	OPTIONS
S1	SET PT	1700		WAIT
S2	SET PT	1700	.85	WAIT
S3	SOAK			4.0
S4	EVT-OUT			3 - ON
S5	TC-INQ	1565		WAIT DOWN
S6	DELAY			5
S7	EVT-OUT			3 - OFF
S8	SET PT	1550	.70	WAIT
S9	SOAK			1.0
S10	EVT-OUT			1 - ON
S11	ALARM			1
S12	EVT-OUT			1 - OFF

Model 9200 Programmable Dual-loop Controller

Rev.	Description	Date
-	Initial Release	04-24-2001
A	Added Revision History	07-11-2001
B	Added	09-03-2004
C	Added "Optcode" description enhancement, TC_INQ & ATM_INQ Added "Change Setpoint" definition to PID Loops	01-17-2005
D	Added several operator functions from a Field Technicians perspective	03-25-2005
E	SSi address & general update	05-17-2005