

C100 Custom Configuration

1 Introduction

ABB can supply custom configurations for the C100 Process Controller on request.

Enter the required setting or place a check mark (✓) against the relevant parameters in the following tables and return this document to the Global Sales office at Stonehouse.

2 Basic Hardware and Configuration

2.1 Hardware Assignment and Input Type

Referring to Section 4.3.1 of the User Guide (IM/C100), enter the setting required for each of the following parameters:

Frequency								✓ Required Configuration
50 Hz	60 Hz	Relay 1	Relay 2	Relay 3	Logic O/P	Analog O/P	Control Type	
<i>i</i>	<i>fl</i>	Output 1	Alarm 1	Alarm 2	Output 1	PV	Time Proportioning or On/Off	
<i>l</i>	<i>b</i>	Alarm 1	Alarm 2	None	None	Output 1	Analog Proportioning	
<i>3</i>	<i>l</i>	Output 1	Output 2	Alarm 1	Output 1	PV	Heat – Time Proportioning Cool – Time Proportioning	
<i>4</i>	<i>d</i>	Output 2	Alarm 1	Alarm 2	Output 2	Output 1	Heat – Analog, Cool – Proportioning or On/Off	
<i>5</i>	<i>E</i>	Alarm 1	Alarm 2	None	Output 1	PV	Alarm Unit or Logic Output Time Proportioning	
<i>U</i>		Custom	Custom	Custom	Custom	Custom	Custom	

Continued...

Input Type Configuration (✓ the input type required)

THC Type B	
THC Type E	
THC Type J	
THC Type K	
THC Type N	
THC Type R	
THC Type S	
THC Type T	
PT100 RTD	
0 to 20mA	
4 to 20mA	
0 to 5 V	
1 to 5 V	
0 to 50mV	
4 to 20mA (Square Root)	
Custom	

Engineering Display Range (enter the values required)

Engineering High	
Engineering Low	

Temperature Units (✓ the units required)

Degrees C	
Degrees F	
No Temperature Units	

Decimal Places (✓ the number of decimal places required)

0	
1	
2	
3	

2.2 Alarms and Set Points

Referring to Section 4.3.2 of the User Guide (IM/C100), enter the setting required for each of the following parameters:

Alarm 1 Type (✓ the alarm type required)

None	
High Process	
Low Process	
High Deviation	
Low Deviation	
Loop Break	

Alarm 1 Trip (enter the Alarm 1 trip point value)

--

Alarm 2 Type (✓ the alarm type required)

None	
High Process	
Low Process	
High Deviation	
Low Deviation	
Loop Break	

Alarm 2 Trip (enter the Alarm 2 trip point value)

--

Alarm Hysteresis (enter the Alarm hysteresis value)

--

Set Point Type (✓ the set point type required)

Local Set Point Only	
Local and Remote (No Remote Set Point Tracking)	
Local and Remote (Remote Set Point Tracking)	
Multiple Fixed Set Points	
Ramp/Soak (time units in minutes)	
Ramp/Soak (time units in hours)	

2.3 Operator Access and Control Action

Referring to Section 4.3.3 of the User Guide (IM/C100), enter the setting required for each of the following parameters:

Power Recovery Mode (✓ the mode required)

Last Mode	
Manual and Last Output	
Manual and 0.0% Output	
Manual and 100% Output	
Auto	
Custom	

Operator Enables (✓ the function required)

Enable Both Functions	
Disable Auto/Manual, Enable Auto-tune	
Enable Auto/Manual, Disable Auto-tune	
Disable Both Functions	

Set Point Enables (✓ the function required)

Enable Both Functions	
Disable Set Point Adjust, Enable Local/Remote	
Enable Set Point Adjust, Disable Local/Remote	
Disable Both Functions	

Control Action (✓ the action required)

Direct	
Reverse	

2.4 Digital Input

Referring to Section 4.3.4 of the User Guide (IM/C100), enter the setting required for each of the following parameters:

Digital Input Functions (✓ the function required)

None	
Auto/Manual	
Local/Remote	
Auto-tune Start	
Ramp/Soak Run/Hold	
Ramp/Soak Run/Stop	
Front Panel Lock-out	
Select Fixed Set Points	

2.5 Retransmission Range

Referring to Section 4.4 of the User Guide (IM/C100), enter the range required for each of the following parameters:

Retransmission High	
Retransmission Low	

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Printed in UK (09.08)

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