C150 Custom Configuration

1 Introduction

ABB can supply custom configurations for the C150 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/C150), enter the setting required for each of the following parameters:

Frequency							
50 Hz	60 Hz	Relay 1	Relay 2	Relay 3	Logic Output Source	Analog Output Source	✔ Required Configuration
1	A	Alarm 1	Alarm 2	Alarm 3	Totalizer Count Pulse*	PV	
2	b	Alarm 1	Alarm 2	Alarm 3	Totalizer Wrap Pulse*	PV	
3	C	Totalizer Count Pulse*	Alarm 1	Alarm 2	Totalizer Wrap Pulse*	PV	
4	d	Totalizer Wrap Pulse*	Alarm 1	Alarm 2	Totalizer Count Pulse*	PV	
5	E	Alarm 1	Alarm 2	Alarm 3	Totalizer Count Pulse*	PV Average	
U		Custom	Custom	Custom	Custom	Custom	

* Pulse energizes assigned relay

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 20 mA	
4 to 20 mA	
0 to 5 V	
1 to 5 V	
0 to 50 mV	
4 to 20 mA (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	
4	

2.2 Alarms and Set Points

Referring to Section 4.3.2 of the User Guide (IM/C150), enter the setting required for each of the following parameters:

Alarm 1 Type (✔ the alarm type required)

None	
High Process	
Low Process	
High Latch	
Low Latch	

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

Alarm 2 Type (✔ the alarm type required)

None	
High Process	
Low Process	
High Latch	
Low Latch	

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

Alarm Hysteresis (enter the Alarm hysteresis value)

2.3 Totalizer Configuration

Referring to Section 4.3.3 of the User Guide (IM/C150), enter the setting required for each of the following parameters:

Totalizer Setup (✔ the mode required)

Count Up, Wrap Off	
Count Up, Wrap On	
Count Down, Wrap Off	
Count Down, Wrap On	

Totalizer Display Decimal Places
(✔ the number of decimal places required)

0	
1	
2	
3	
4	
5	

Display	Max./Min. Values Displayed	Average Value Displayed	Preset/Predetermined Values Displayed	✔ required configuration
0	No	No	No	
1	Yes	No	No	
2	Yes	Yes	No	
3	No	Yes	Yes	
4	No	No	Yes	
5	Yes	No	Yes	
6	Yes	Yes	Yes	

Display	Totalizer Stop/Go	Totalizer Reset	Max./Min./Average	✔ required configuration
0	No	No	No	
1	Yes	No	No	
2	No	Yes	No	
3	Yes	No	Yes	
4	No	Yes	Yes	
5	Yes	Yes	Yes	

2.4 Digital Input

Referring to Section 4.3.4 of the User Guide (IM/C150), enter the setting required for each of the following parameters:

Digital Input Functions (✔ the function required)

None	
Totalizer Reset	
Totalizer Stop/Go	
Average, Max./Min. Reset	
Front Panel Lockout	
Alarm Acknowledge	

Analog Input Filter (✔ the filter value required)

0 Seconds	
1 Second	
2 Seconds	
5 Seconds	
10 Seconds	
20 Seconds	
40 Seconds	
60 Seconds	

2.5 Ranges

Referring to Section 4.4 of the User Guide (IM/C150), enter the value required for each of the following parameters:

Retransmission High	
Retransmission Low	
Totalizer Count High	
Totalizer Count Low	
Totalizer Cutoff	

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ABB Limited
Oldends Lane, Stonehouse
Gloucestershire
GL10 3TA
UK
Tel: +44 (0)1453 826661
Fax: +44 (0)1453 829671

ABB Inc.
125 E. County Line Road
Warminster
PA 18974
USA
Tel:+1 215 674 6000
Fax:+1 215 674 7183