

## V100 Custom Configuration

### 1 Introduction

ABB can supply custom configurations for the V100 Motorized Valve 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/V100), enter the setting required for each of the following parameters:

Frequency		Relay 1	Relay 2	Relay 3*	Logic O/P	Analog O/P 1	Control Type	✓ Required Configuration
50 Hz	60 Hz							
<i>5</i>	<i>F</i>	Open Valve	Close Valve	Alarm 1	Alarm 2	Process Value Retransmission	Boundless	
<i>U</i>		Custom	Custom	Custom	Custom	Custom	Custom	

\* Available only if option board 2 or 3 is fitted

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	

**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/V100), 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	

**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	

**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/V100), enter the setting required for each of the following parameters:

**Power Recovery Mode** (✓ the mode required)

Last Mode	
Manual with Last Valve Position	
Manual with Valve Fully Closed	
Manual with Valve Fully Open	
Auto	
Custom	

**Operator Enables** (✓ the function required)

Enable Auto/Manual	
Disable Auto/Manual	

**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)

Reverse	
Direct	

### 2.4 Digital Input and Serial Communications

Referring to Section 4.3.4 of the User Guide (IM/V100), enter the setting required for each of the following parameters:

**Digital Input Functions** (✓ the function required)

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

**Analog Input Filter** (✓ the filter value required)

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

**Serial Communication Configuration**

(✓ the configuration required)

Off	
2400 Baud, 2-wire	
2400 Baud, 4-wire	
9600 Baud, 2-wire	
9600 Baud, 4-wire	

**Serial Communication Parity** (✓ the parity required)

None	
Odd	
Even	

## 2.5 Ranges and Passwords

Referring to Section 4.4 of the User Guide (IM/V100), enter the range required for each of the following parameters:

### Engineering Range (enter the values required)

High	
Low	

### Retransmission Range (enter the values required)

High	
Low	

### Set Point Limit (enter the values required)

High	
Low	

### Fixed Set Point Values (if multiple fixed set point facility required, enter the value required for each fixed set point )

1	
2	
3	
4	

### Configured Output (✓ the output required)

Open	
Closed	
Last	

### Set Up Password

(enter the password required between 0 and 9999)

### Modbus Address

(enter the address required between 0 and 99)

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Printed in UK (12.08)

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