

SR100B 100mm Process Recorder Custom Configuration

1 Introduction

ABB can supply custom configurations for the SR100B 100mm Process Recorder 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 Hardware Configuration

Number of Channels (✓ the number required)

3	
6	

Module Options

(✓ the type of module required in each position)

Type	Position	
	B	C
None		
3 Relay Outputs		

3 Configuration

3.1 Analog Input Configuration

Referring to Section 3.2.1 of the User Guide (IM/SR100B), enter the settings required for each of the analog inputs:

3.1.1 Analog Input 1

Input Type (✓ the input type required)

Resistance Thermometer (RTD)	
Thermocouple (TC)	
Resistance (R)	
Voltage (V)	
Low Current (mA)	
Low Voltage (mV)	

Linearizer Type (✓ the linearizer type required)

Power 5/2	
Power 3/2	
Square Root	
Custom	
RTD	
Type N	
Type B	
Type E	
Type L	
Type J	
Type T	
Type S	
Type R	
Type K	
None	

Linearizer Units (✓ the units required)

Deg F	
Deg C	

Input Electrical Range

(enter the electrical range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Input Engineering Range

(enter the engineering range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Broken Sensor Drive (✓ the direction for the input in the event of a broken sensor)

Up	
Down	
None	

Fault Detect Level

(enter the value of the level of fault detection required)

Filter Time (enter the time period in seconds between 0 and 60 over which the input values are to be averaged)

Engineering Units (enter the engineering units required)

Analog Input Tag (enter the tag required)

3.1.2 Analog Input 2

Input Type (✓ the input type required)

Resistance Thermometer (RTD)	
Thermocouple (TC)	
Resistance (R)	
Voltage (V)	
Low Current (mA)	
Low Voltage (mV)	
Off	

Linearizer Type (✓ the linearizer type required)

Power 5/2	
Power 3/2	
Square Root	
Custom	
RTD	
Type N	
Type B	
Type E	
Type L	
Type J	
Type T	
Type S	
Type R	
Type K	
None	

Linearizer Units (✓ the units required)

Deg F	
Deg C	

Input Electrical Range

(enter the electrical range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Input Engineering Range

(enter the engineering range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Broken Sensor Drive (✓ the direction for the input in the event of a broken sensor)

Up	
Down	
None	

Fault Detect Level

(enter the value of the level of fault detection required)

Filter Time (enter the time period in seconds between 0 and 60 over which the input values are to be averaged)

Engineering Units (enter the engineering units required)

Analog Input Tag (enter the tag required)

3.1.3 Analog Input 3

Input Type (✓ the input type required)

Resistance Thermometer (RTD)	
Thermocouple (TC)	
Resistance (R)	
Voltage (V)	
Low Current (mA)	
Low Voltage (mV)	
Off	

Linearizer Type (✓ the linearizer type required)

Power 5/2	
Power 3/2	
Square Root	
Custom	
RTD	
Type N	
Type B	
Type E	
Type L	
Type J	
Type T	
Type S	
Type R	
Type K	
None	

Linearizer Units (✓ the units required)

Deg F	
Deg C	

Input Electrical Range

(enter the electrical range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Input Engineering Range

(enter the engineering range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Broken Sensor Drive (✓ the direction for the input in the event of a broken sensor)

Up	
Down	
None	

Fault Detect Level

(enter the value of the level of fault detection required)

Filter Time (enter the time period in seconds between 0 and 60 over which the input values are to be averaged)
Engineering Units (enter the engineering units required)
Analog Input Tag (enter the tag required)

3.1.4 Analog Input 4

Input Type (✓ the input type required)

Resistance Thermometer (RTD)	
Thermocouple (TC)	
Resistance (R)	
Voltage (V)	
Low Current (mA)	
Low Voltage (mV)	
Off	

Linearizer Type (✓ the linearizer type required)

Power 5/2	
Power 3/2	
Square Root	
Custom	
RTD	
Type N	
Type B	
Type E	
Type L	
Type J	
Type T	
Type S	
Type R	
Type K	
None	

Linearizer Units (✓ the units required)

Deg F	
Deg C	

Input Electrical Range

(enter the electrical range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Input Engineering Range

(enter the engineering range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Broken Sensor Drive (✓ the direction for the input in the event of a broken sensor)

Up	
Down	
None	

Fault Detect Level

(enter the value of the level of fault detection required)

Filter Time (enter the time period in seconds between 0 and 60 over which the input values are to be averaged)

Engineering Units (enter the engineering units required)

Analog Input Tag (enter the tag required)

3.1.5 Analog Input 5

Input Type (✓ the input type required)

Resistance Thermometer (RTD)	
Thermocouple (TC)	
Resistance (R)	
Voltage (V)	
Low Current (mA)	
Low Voltage (mV)	
Off	

Linearizer Type (✓ the linearizer type required)

Power 5/2	
Power 3/2	
Square Root	
Custom	
RTD	
Type N	
Type B	
Type E	
Type L	
Type J	
Type T	
Type S	
Type R	
Type K	
None	

Linearizer Units (✓ the units required)

Deg F	
Deg C	

Input Electrical Range

(enter the electrical range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Input Engineering Range

(enter the engineering range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Broken Sensor Drive (✓ the direction for the input in the event of a broken sensor)

Up	
Down	
None	

Fault Detect Level

(enter the value of the level of fault detection required)

Filter Time (enter the time period in seconds between 0 and 60 over which the input values are to be averaged)
Engineering Units (enter the engineering units required)
Analog Input Tag (enter the tag required)

3.1.6 Analog Input 6

Input Type (✓ the input type required)

Resistance Thermometer (RTD)	
Thermocouple (TC)	
Resistance (R)	
Voltage (V)	
Low Current (mA)	
Low Voltage (mV)	
Off	

Linearizer Type (✓ the linearizer type required)

Power 5/2	
Power 3/2	
Square Root	
Custom	
RTD	
Type N	
Type B	
Type E	
Type L	
Type J	
Type T	
Type S	
Type R	
Type K	
None	

Linearizer Units (✓ the units required)

Deg F	
Deg C	

Input Electrical Range

(enter the electrical range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Input Engineering Range

(enter the engineering range values required)

Range Full Scale	
Range Decimal Point	
Range Zero	

Broken Sensor Drive

(✓ the direction for the input in the event of a broken sensor)

Up	
Down	
None	

Fault Detect Level

(enter the value of the level of fault detection required)

Filter Time (enter the time period in seconds between 0 and 60 over which the input values are to be averaged)

Engineering Units (enter the engineering units required)

Analog Input Tag (enter the tag required)

3.2 Process Alarm Configuration

Referring to Section 3.3.1 of the User Guide (IM/SR100B), enter the settings required for each of the alarms:

3.2.1 Alarm A

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.2 Alarm B

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.3 Alarm C

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.4 Alarm D

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.5 Alarm E

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.6 Alarm F

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.7 Alarm G

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.8 Alarm H

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.9 Alarm J

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.10 Alarm K

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.11 Alarm L

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.2.12 Alarm M

Alarm Type (✓ the alarm type required)

Off	
Low Process	
High Process	

Alarm Source (enter a source for the alarm)

Alarm Trip (enter the alarm trip point value)

Alarm Hysteresis (enter the alarm hysteresis value)

3.3 Chart Control Configuration

Referring to Section 3.4.1 of the User Guide (IM/SR100B) enter the chart control configuration settings required.

Chart Speed 1

(enter a chart speed between 0 and 1500 mm/hr)

Chart Speed 1 Source

(enter the source to initiate a change to chart speed 1)

Chart Speed 2

(enter a chart speed between 0 and 1500 mm/hr)

Chart Speed 2 Source

(enter the source to initiate a change to chart speed 2)

Chart Speed 3

(enter a chart speed between 0 and 1500 mm/hr)

Chart Speed 3 Source

(enter the source to initiate a change to chart speed 3)

Text Print Enable (✓ the text printing required)

No Auto Print	
On	
Off	

Alarm Print Enable (✓ the alarm print setting required)

On	
Off	

Message Print Speed (✓ the print speed required)

Fast	
Slow	

Chart Cassette Type (✓ the type required)

Roll Chart	
Fanfold	

3.4 Chart Scaling Configuration

Referring to Section 3.4.2 of the User Guide (IM/SR100B), enter the settings required for each of the parameters.

Chart Scale 1

Scale Pen (enter the pen color required)

Scale Full Scale

(enter the full scale value required between -999 and 9999)

Scale Decimal Point (✓ the setting required)

0		1		2	
---	--	---	--	---	--

Scale Divisions (✓ the number of divisions required)

30		40		50	
60		70		75	

Scale Source (enter the source required to print the scale)

Chart Scale 2

Scale Pen (enter the pen color required)

Scale Full Scale

(enter the full scale value required between -999 and 9999)

Scale Decimal Point (✓ the setting required)

0		1		2	
---	--	---	--	---	--

Scale Divisions (✓ the number of divisions required)

30		40		50	
60		70		75	

Scale Source (enter the source required to print the scale)

Chart Scale 3

Scale Pen (enter the pen color required)

Scale Full Scale

(enter the full scale value required between -999 and 9999)

Scale Decimal Point (✓ the setting required)

0		1		2	
---	--	---	--	---	--

Scale Divisions (✓ the number of divisions required)

30		40		50	
60		70		75	

Scale Source (enter the source required to print the scale)

Chart Scale 4

Scale Pen (enter the pen color required)

Scale Full Scale

(enter the full scale value required between -999 and 9999)

Scale Decimal Point (✓ the setting required)

0		1		2	
---	--	---	--	---	--

Scale Divisions (✓ the number of divisions required)

30		40		50	
60		70		75	

Scale Source (enter the source required to print the scale)

Chart Scale 5

Scale Pen (enter the pen color required)

Scale Full Scale

(enter the full scale value required between -999 and 9999)

Scale Decimal Point (✓ the setting required)

0		1		2	
---	--	---	--	---	--

Scale Divisions (✓ the number of divisions required)

30		40		50	
60		70		75	

Scale Source (enter the source required to print the scale)

Chart Scale 6

Scale Pen (enter the pen color required)

Scale Full Scale

(enter the full scale value required between -999 and 9999)

Scale Decimal Point (✓ the setting required)

0		1		2	
---	--	---	--	---	--

Scale Divisions (✓ the number of divisions required)

30		40		50	
60		70		75	

Scale Source (enter the source required to print the scale)

3.5 Relay Module Configuration

Referring to Section 3.5.1 of the User Guide (IM/SR100B), enter the settings required for each of the relays.

Relay Output 1 Source (✓ the source required)

Relay Output 1 Polarity (✓ the polarity required)

Positive		Negative	
----------	--	----------	--

Relay Output 2 Source (✓ the source required)

Relay Output 2 Polarity (✓ the polarity required)

Positive		Negative	
----------	--	----------	--

Relay Output 3 Source (✓ the source required)

Digital Output 3 Polarity (✓ the polarity required)

Positive		Negative	
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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