

SM2000 Advanced Videographic Recorder Custom Configuration

1 Introduction

ABB can supply custom configurations for the SM2000 Advanced Videographic 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)

1	
6	
12	

Archive Media Type (✓ the type required)

None	
SmartMedia	
Compact Flash	

Software Options (✓ the option required)

None	
Math & Logic	
Batch Recording	

Module Options (✓ the type of module required in each position)

Type	Position			
	A	B	C	D
None	N/A			
Analog Input	✓			
3 Relays	Reserved for analog inputs	Reserved for analog inputs if 12 channels required		
6 Relays				
Hybrid				
Transmitter Power Supply				
Ethernet				

3 Common Configuration

3.1 Setup Tab

Referring to Section 4.4.1 of the User Guide (IM/SM2000), enter the settings required for each of the parameters.

Configuration Type (✓ the type required)

Note. Contact ABB if Advanced configuration required.

Basic	
Advanced	

Number of Groups (✓ the number required)

1	
2	

Language (✓ the language required)

English	
French	
German	
Italian	
Spanish	

Global Alarm Acknowledge Source

(enter a source to acknowledge all alarms)

Instrument Tag

(enter a tag used to identify the instrument)

3.2 RS485 (Modbus™) Tab

Referring to Section 4.4.8 of the User Guide (IM/SM2000), enter the settings required for each of the parameters.

Protocol (✓ the protocol required)

Modbus	
Modbus Master	

Type (✓ the type required)

Four Wire	
Two Wire	

Baud Rate (✓ the baud rate required)

1200		19200	
2400		38400	
4800		115200	
9600			

Parity (✓ the parity required)

None	
Odd	
Even	

Address – *Modbus protocol only*

(enter the address required between 1 and 247)

Poll Rate (ms) – *Modbus Master protocol only*

(enter the poll rate required between 0 and 3600000)

Poll Fail Limit – *Modbus Master protocol only*

(enter the poll fail limit required between 1 and 4)

Response Timeout (ms) – *Modbus Master protocol only*

(enter the timeout required between 0 and 60000)

3.2.1 Comms. Analog Input Tab

Note. These parameters are configured only if the RS485 Protocol parameter is to be set to *Modbus Master*.

Referring to Section 4.4.9 of the User Guide (IM/SM2000), enter the settings required for each of the parameters.

Comms.. Analog I/P (✓ the input required)

Comms.. AIN 1		Comms.. AIN 13	
Comms.. AIN 2		Comms.. AIN 14	
Comms. AIN 3		Comms. AIN 15	
Comms. AIN 4		Comms. AIN 16	
Comms. AIN 5		Comms. AIN 17	
Comms. AIN 6		Comms. AIN 18	
Comms. AIN 7		Comms. AIN 19	
Comms. AIN 8		Comms. AIN 20	
Comms. AIN 9		Comms. AIN 21	
Comms. AIN 10		Comms. AIN 22	
Comms. AIN 11		Comms. AIN 23	
Comms. AIN 12		Comms. AIN 24	

RTU-Address

(enter the RTU address required between 1 and 247)

Register Number

(enter the register number required between 0 and 65535)

Type (✓ the type required)

Input Register		Holding Register	
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Format (✓ the format required)

Sint16		Reverse IEEE	
Sint32		Sint16 X 10	
Reverse Sint32		Sint16 X 100	
IEEE		Sint16 X 1000	

3.2.2 Comms. Digital Input Tab

Note. These parameters are configured only if the RS485 Protocol parameter is to be set to *Modbus Master*.

Referring to Section 4.4.10 of the User Guide (IM/SM2000), enter the settings required for each of the parameters.

Comms. Digital I/P (✓ the input required)

Comms. Dig I/P 1		Comms. Dig I/P 14	
Comms. Dig I/P 2		Comms. Dig I/P 15	
Comms. Dig I/P 3		Comms. Dig I/P 16	
Comms. Dig I/P 4		Comms. Dig I/P 17	
Comms. Dig I/P 5		Comms. Dig I/P 18	
Comms. Dig I/P 6		Comms. Dig I/P 14	
Comms. Dig I/P 7		Comms. Dig I/P 19	
Comms. Dig I/P 8		Comms. Dig I/P 20	
Comms. Dig I/P 9		Comms. Dig I/P 21	
Comms. Dig I/P 10		Comms. Dig I/P 22	
Comms. Dig I/P 11		Comms. Dig I/P 23	
Comms. Dig I/P 12		Comms. Dig I/P 24	

RTU-Address

(enter the RTU address required between 1 and 247)

Register Number

(enter the register number required between 0 and 65535)

Type (✓ the type required)

Input Status		Coil Status	
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4 Group Configuration

4.1 Process Group 1

Referring to Section 4.5.1 of the User Guide (IM/SM2000), enter the settings required for each of the parameters.

4.1.1 Recording Tab

Tag (enter a tag used to identify the process group)

Recording Enable Source

(enter a source to enable/disable recording)

Primary Sample Rate

(enter the primary sampling rate required)

Secondary Sample Rate

(enter the secondary sampling rate required)

Sample Rate Select Source

(enter a source to enable switching between sample rates)

4.1.2 Archive Tab

Archive File Format (✓ the file format required)

Text Format	
Binary Format	

Archive File Enables (✓ the data types to be archived)

Channel Data Files (*.b or *.d)	
Alarm Event Log Files (*.e)	
Totalizer Log Files (*.t)	
Audit Log Files (*.a)	

Filename Tag

([text format files only] enter the filename required)

New File Interval

([text format files only] ✓ the frequency required)

Hourly	
Daily	
Monthly	
None	

Wrap (✓ the setting required)

Off	
On	

4.2 Process Group 2

Referring to Section 4.5.1 of the User Guide (IM/SM2000), enter the settings required for each of the parameters.

4.2.1 Recording Tab

Tag (enter a tag used to identify the process group)

Recording Enable Source

(enter a source to enable/disable recording)

Primary Sample Rate

(enter the primary sampling rate required)

Secondary Sample Rate

(enter the secondary sampling rate required)

Sample Rate Select Source

(enter a source to enable switching between sample rates)

4.2.2 Archive Tab

Archive File Format (✓ the file format required)

Text Format	
Binary Format	

Archive File Enables (✓ the data types to be archived)

Channel Data Files (*.b or *.d)	
Alarm Event Log Files (*.e)	
Totalizer Log Files (*.t)	
Audit Log Files (*.a)	

Filename Tag

([text format files only] enter the filename required)

New File Interval

([text format files only] ✓ the frequency required)

Hourly	
Daily	
Monthly	
None	

Wrap (✓ the setting required)

Off	
On	

5 Channel Configuration

Referring to Section 4.6 of the User Guide (IM/SM2000), enter the settings required for each of the parameters.

5.1 Process Group 1

5.1.1 Channel 1.1

Source ID (enter the input source required)

Input Type (✓ the input type required)

Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	
Resistance			

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only) (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only) (enter the delay value required)

Alarm A Deviation (deviation alarms only) (enter the deviation value required)

Alarm A Period (deviation alarms only) (enter the time period required)

Alarm A Enable Source

(enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group

(✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.1.2 Channel 1.2

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	<input type="checkbox"/>
Off	<input type="checkbox"/>

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1	<input type="checkbox"/>	Group 7	<input type="checkbox"/>
Group 2	<input type="checkbox"/>	Group 8	<input type="checkbox"/>
Group 3	<input type="checkbox"/>	Group 9	<input type="checkbox"/>
Group 4	<input type="checkbox"/>	Group 10	<input type="checkbox"/>
Group 5	<input type="checkbox"/>	Group 11	<input type="checkbox"/>
Group 6	<input type="checkbox"/>	Group 12	<input type="checkbox"/>

Totalizer Enable (✓ the setting required)

Off	<input type="checkbox"/>
Count Up	<input type="checkbox"/>
Count Down	<input type="checkbox"/>

Totalizer Wrap (✓ the setting required)

On	<input type="checkbox"/>
Off	<input type="checkbox"/>

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	<input type="checkbox"/>
Stop	<input type="checkbox"/>
Go	<input type="checkbox"/>

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	<input type="text"/>
Predetermined Count	<input type="text"/>
Intermediate Count	<input type="text"/>

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.1.3 Channel 1.3

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.1.4 Channel 1.4

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.1.5 Channel 1.5

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	<input type="checkbox"/>
Off	<input type="checkbox"/>

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1	<input type="checkbox"/>	Group 7	<input type="checkbox"/>
Group 2	<input type="checkbox"/>	Group 8	<input type="checkbox"/>
Group 3	<input type="checkbox"/>	Group 9	<input type="checkbox"/>
Group 4	<input type="checkbox"/>	Group 10	<input type="checkbox"/>
Group 5	<input type="checkbox"/>	Group 11	<input type="checkbox"/>
Group 6	<input type="checkbox"/>	Group 12	<input type="checkbox"/>

Totalizer Enable (✓ the setting required)

Off	<input type="checkbox"/>
Count Up	<input type="checkbox"/>
Count Down	<input type="checkbox"/>

Totalizer Wrap (✓ the setting required)

On	<input type="checkbox"/>
Off	<input type="checkbox"/>

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	<input type="checkbox"/>
Stop	<input type="checkbox"/>
Go	<input type="checkbox"/>

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	<input type="text"/>
Predetermined Count	<input type="text"/>
Intermediate Count	<input type="text"/>

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.1.6 Channel 1.6

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.2 Process Group 2

5.2.1 Channel 2.1

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source

(enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group

(✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.2.2 Channel 2.2

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.2.3 Channel 2.3

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.2.4 Channel 2.4

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	<input type="checkbox"/>
Off	<input type="checkbox"/>

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1	<input type="checkbox"/>	Group 7	<input type="checkbox"/>
Group 2	<input type="checkbox"/>	Group 8	<input type="checkbox"/>
Group 3	<input type="checkbox"/>	Group 9	<input type="checkbox"/>
Group 4	<input type="checkbox"/>	Group 10	<input type="checkbox"/>
Group 5	<input type="checkbox"/>	Group 11	<input type="checkbox"/>
Group 6	<input type="checkbox"/>	Group 12	<input type="checkbox"/>

Totalizer Enable (✓ the setting required)

Off	<input type="checkbox"/>
Count Up	<input type="checkbox"/>
Count Down	<input type="checkbox"/>

Totalizer Wrap (✓ the setting required)

On	<input type="checkbox"/>
Off	<input type="checkbox"/>

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	<input type="checkbox"/>
Stop	<input type="checkbox"/>
Go	<input type="checkbox"/>

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	<input type="text"/>
Predetermined Count	<input type="text"/>
Intermediate Count	<input type="text"/>

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.2.5 Channel 2.5

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

5.2.6 Channel 2.6

Source ID (enter the input source required)

Input Type (✓ the input type required)

Off		Resistance	
Millivolts		Resistance Thermometer	
Milliamps		Thermocouple	
Volts		Volt-free Digital Input	

Engineering Range and Units (enter the values required)

High	
Low	
Units	

Short Tag (enter the tag required – 8 characters max.)

Long Tag (enter the tag required – 20 characters max.)

Filter Time Constant (enter the value required)

Fault Detect Level (enter the tolerance level required [between 0 and 100% of the engineering range])

Broken Sensor Direction (✓ the drive direction required)

None	
Upscale	
Downscale	

Alarm A Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm A Tag (enter the tag required – 20 characters max.)

Alarm A Trip (enter the trip point value required)

Alarm A Hysteresis (enter the hysteresis value required)

Alarm A Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm A Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm A Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm A Period (deviation alarms only)
 (enter the time period required)

Alarm A Enable Source
 (enter a source to enable/disable the alarm)

Alarm A Log Enable (✓ the setting required)

On	
Off	

Alarm A Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Alarm B Type (✓ the alarm type required)

Off		High Annunciate	
High Process		Low Annunciate	
Low Process		Fast Rate	
High Latch		Slow Rate	
Low Latch		Delayed High Process	
		Delayed Low Process	

Alarm B Tag (enter the tag required – 20 characters max.)

Alarm B Trip (enter the trip point value required)

Alarm B Hysteresis (enter the hysteresis value required)

Alarm B Time Hysteresis (process and latch alarms only)
 (enter the time hysteresis value required)

Alarm B Delay Time (delayed alarms only)
 (enter the delay value required)

Alarm B Deviation (deviation alarms only)
 (enter the deviation value required)

Alarm B Period (deviation alarms only)
 (enter the time period required)

Alarm B Enable Source
 (enter a source to enable/disable the alarm)

Alarm B Log Enable (✓ the setting required)

On	
Off	

Alarm B Alarm Group
 (✓ the group or groups to which to assign the alarm)

Group 1		Group 7	
Group 2		Group 8	
Group 3		Group 9	
Group 4		Group 10	
Group 5		Group 11	
Group 6		Group 12	

Totalizer Enable (✓ the setting required)

Off	
Count Up	
Count Down	

Totalizer Wrap (✓ the setting required)

On	
Off	

Totalizer Tag (enter the tag required – 20 characters max.)

Totalizer Units (enter the units required)

Totalizer Stop/Go Recovery (✓ the action required)

Last	
Stop	
Go	

Totalizer Stop/Go Source (enter the source required)

Totalizer Count Range (enter the values required)

Preset Count	
Predetermined Count	
Intermediate Count	

Totalizer Reset Source (enter the source required)

Totalizer Log Update Time (enter the time required)

Totalizer Log Update Source (enter the source required)

Totalizer Count Rate (enter the count rate value required)

Totalizer Cut Off (enter the cut off value required)

6 Relay Module Configuration

Referring to Section 4.7.2 of the User Guide (IM/SM2000), enter the settings required for each of the outputs.

Relay 1 Source (enter the source required)

--

Relay 1 Polarity (✓ the polarity required)

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

Relay 2 Source (enter the source required)

--

Relay 2 Polarity (✓ the polarity required)

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

Relay 3 Source (enter the source required)

--

Relay 3 Polarity (✓ the polarity required)

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

Relay 4 Source (enter the source required)

--

Relay 4 Polarity (✓ the polarity required)

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

Relay 5 Source (enter the source required)

--

Relay 5 Polarity (✓ the polarity required)

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

Relay 6 Source (enter the source required)

--

Relay 6 Polarity (✓ the polarity required)

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

7 Hybrid Module Configuration

Referring to Section 4.7.3 of the User Guide (IM/SM2000), enter the settings required for each of the outputs.

Digital Output 1 Source (enter the source required)

--

Digital Output 1 Polarity (✓ the polarity required)

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

Digital Output 2 Source (enter the source required)

--

Digital Output 2 Polarity (✓ the polarity required)

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

Digital Output 3 Source (enter the source required)

--

Digital Output 3 Polarity (✓ the polarity required)

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

Digital Output 4 Source (enter the source required)

--

Digital Output 4 Polarity (✓ the polarity required)

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

Digital Output 5 Source (enter the source required)

--

Digital Output 5 Polarity (✓ the polarity required)

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

Digital Output 6 Source (enter the source required)

--

Digital Output 6 Polarity (✓ the polarity required)

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

Analog Output 1 Source (enter the source required)

--

Analog Output 1 Range (enter the values required)

Engineering Low		Electrical Low	
Engineering High		Electrical High	

Analog Output 2 Source (enter the source required)

--

Analog Output 2 Range (enter the values required)

Engineering Low		Electrical Low	
Engineering High		Electrical High	

8 Ethernet Module Configuration

Referring to Section 3.1 of the User Guide Supplement – Ethernet Communications Option (IM/SMENET), enter the settings required for each of the parameters.

IP Address (enter the address required)

--

Subnet Mask (enter the subnet mask required)

--

Default Gateway (enter the default gateway required)

--

FTP User 1 (enter the settings required)

Name					
Password					
Access Level (✓ the setting required)					
<input type="checkbox"/> Full	<input type="checkbox"/>	<input type="checkbox"/> Read Only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remote Operation (✓ the setting required)					
<input type="checkbox"/> None	<input type="checkbox"/>	<input type="checkbox"/> Operator	<input type="checkbox"/>	<input type="checkbox"/> Configuration	<input type="checkbox"/>

FTP User 2 (enter the settings required)

Name					
Password					
Access Level (✓ the setting required)					
<input type="checkbox"/> Full	<input type="checkbox"/>	<input type="checkbox"/> Read Only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remote Operation (✓ the setting required)					
<input type="checkbox"/> None	<input type="checkbox"/>	<input type="checkbox"/> Operator	<input type="checkbox"/>	<input type="checkbox"/> Configuration	<input type="checkbox"/>

FTP User 3 (enter the settings required)

Name					
Password					
Access Level (✓ the setting required)					
<input type="checkbox"/> Full	<input type="checkbox"/>	<input type="checkbox"/> Read Only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remote Operation (✓ the setting required)					
<input type="checkbox"/> None	<input type="checkbox"/>	<input type="checkbox"/> Operator	<input type="checkbox"/>	<input type="checkbox"/> Configuration	<input type="checkbox"/>

FTP User 4 (enter the settings required)

Name					
Password					
Access Level (✓ the setting required)					
<input type="checkbox"/> Full	<input type="checkbox"/>	<input type="checkbox"/> Read Only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remote Operation (✓ the setting required)					
<input type="checkbox"/> None	<input type="checkbox"/>	<input type="checkbox"/> Operator	<input type="checkbox"/>	<input type="checkbox"/> Configuration	<input type="checkbox"/>

8.1 e-mail Configuration

Referring to Section 3.5 of the User Guide Supplement – Ethernet Communications Option (IM/SMENET), enter the settings required for each of the parameters.

8.1.1 e-mail 1

SMTP Server IP Address (enter the address required)

--

Recipients (enter the addresses of the email recipients)

Recipient 1	
Recipient 2	
Recipient 3	

Options Enabled (✓ the option(s) required)

Channels Report	
Totalizers Report	
External Media Report	
Report in ALL emails	
Trigger 6 Inverted	
Trigger 7 Inverted	
Trigger 8 Inverted	
Trigger 9 Inverted	
Trigger 10 Inverted	

Event Triggers

(enter up to 10 event source types to generate an email)

Trigger 1	
Trigger 2	
Trigger 3	
Trigger 4	
Trigger 5	
Trigger 6	
Trigger 7	
Trigger 8	
Trigger 9	
Trigger 10	

8.1.2 e-mail 2

SMTP Server IP Address (enter the address required)

--

Recipients (enter the addresses of the email recipients)

Recipient 1	
Recipient 2	
Recipient 3	

Options Enabled (✓ the option(s) required)

Channels Report	
Totalizers Report	
External Media Report	
Report in ALL emails	
Trigger 6 Inverted	
Trigger 7 Inverted	
Trigger 8 Inverted	
Trigger 9 Inverted	
Trigger 10 Inverted	

Event Triggers

(enter up to 10 event source types to generate an email)

Trigger 1	
Trigger 2	
Trigger 3	
Trigger 4	
Trigger 5	
Trigger 6	
Trigger 7	
Trigger 8	
Trigger 9	
Trigger 10	

Notes

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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