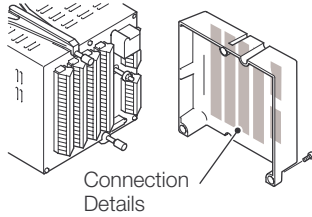


# SM1000 – QUICK START GUIDE

## 1 Make Connections & Power-up the Instrument



## 2 Select the Configuration Level and a Quick Start Template

Configuration Operator 1

QuickStart Template	Summary Channels 1.1 to 1.6
QSMilliAmp	4 to 20mA inputs, 0 to 100.0 units
QSTHC_C or QSTHC_F	Thermocouple type K 0 to 1000°C or 0 to 1000°F
QSRTD_C or QSRTD_F	Pt100 inputs 0 to 1000°C or 0 to 1000°F
QSFlow	4 to 20mA, 0 to 180 l/hr, Totalizer enabled
QSDairy	Delayed High/Low Process Alarm Engineering Range -10 to 90°C

Main Configuration Menu

## 3 Set the Time and Date

Common → Time

Date and Time

Format DD/MM/YY    Format HH:MM:SS

Year: 2000    Hours: 15

Month: 03    Minute: 37

Day: 10    Seconds: 58

WARNING: Changing the time will result in the permanent loss of data

Cancel    OK

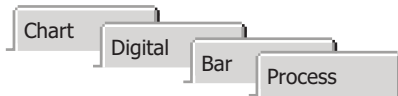
## 4 Set the Sample Rate

Group 1 → Recording

Chart speed	Sample Rate	On board storage
10 mm/h	60s	12 months
20 mm/h	30s	6 months
60 mm/h	10s	2 months
120 mm/h	5s	30 days
240 mm/h	2s	14 days
720 mm/h	1s	6 days

6 Channels Enabled

## 5 Select the Views Required and the Operator Menu Choices



## 6 Set Up the Archive Files

Archive

- Set the **Archive File Enables** – i.e. the files to be archived
- Set the **Filename Tag**
- Set the **New File Interval** (hourly, monthly or none)

## 7 Change the Channel Configurations

Channels 1.1 - 1.6 → Channel n.n

Set Up

- Select the **Channel Source**
- Select the **Input Filter Type**: Instantaneous or Max. and Min. Values during the sample interval.

Analog I/P

- Select the **input type**, linearizer, ranges and tag name

Alarm A

- Select the **Alarm type**, set the alarm trip points, the tag and the hysteresis.

Alarm B

Totalizer

- Set the **Count Rate**, Preset & Predetermined Count values

## 8 Set Up I/O

I/O Modules

Note. Modules fitted are detected automatically

I/O Modules

A: Analog I/P

- Set the **Mains Rejection Frequency**

B: Relay

- Select the **Relay Source** and the **Relay Polarity**

C: Hybrid

- Select the **Analog Output Source & Ranges**
- Select the **Digital Output Sources & Polarity**

## 9 Exit Configuration and Save Changes

Exit

Save as Current Configuration

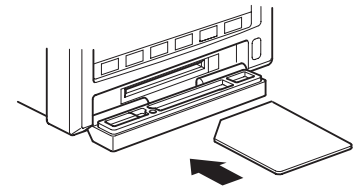
Save

Internal Storage

External Storage

Cancel

## 10 Start Recording!



Insert media to start the archiving process automatically

Note. For detailed information on setting all configuration parameters, refer to the SM1000 User Guide, part number IM/SM1000.

# CONFIGURATION OVERVIEW

## Common Configuration



- Set Up**
  - Configuration Type
  - No. of Process Groups
  - Language
  - Global Alarm Acknowledge Source
- Time**
  - Current Date/Time
  - Daylight Saving
- Security**
  - Usernames
  - Passwords
  - Config. Access Method
- Logs**
  - Alarm, Totalizer & Audit Log Sizes
- Operator Messages**
  - Tag Name
  - Activating Source
  - Add to Event Log Enable

## Group 1 Channels and Group 2 Channels



- Set Up**
  - Source ID
  - Input Filter Type
  - Recording Enable
- Analog I/P**
  - Input Type
  - Tags, Units & Values
  - Linearizer
  - Fault Detection
- Digital I/P**
  - ON Tag
  - OFF Tag
- Alarm A**
  - Type, Source, Tag,
  - Trip Level
  - Hysteresis
  - Alarm Groups
- Alarm B**
  - Type, Source, Tag,
  - Trip Level
  - Hysteresis
  - Alarm Groups
- Totalizer**
  - Source
  - Count Rate, Cut-off, Direction
  - Tag Name
  - Totalizer Units
  - Count, Preset, Intermediate & Predetermined Values

## Process Groups 1 and 2



- Recording**
  - Group Tag
  - Sample Rates
  - Recording Enable
- Chart**
  - Annotations
  - Chart Divisions
  - Screen Interval
  - Operator Menu Options
- Bar**
  - Display On/Off &
  - Operator Menu Options
- Process**
  - Display On/Off &
  - Operator Menu Options
- Digital**
  - Display On/Off &
  - Operator Menu Options
- Archive**
  - Channel Data, Log Archive Options
  - Filenames
  - Archive Rates (Advanced Config. Only)

## I/O Modules



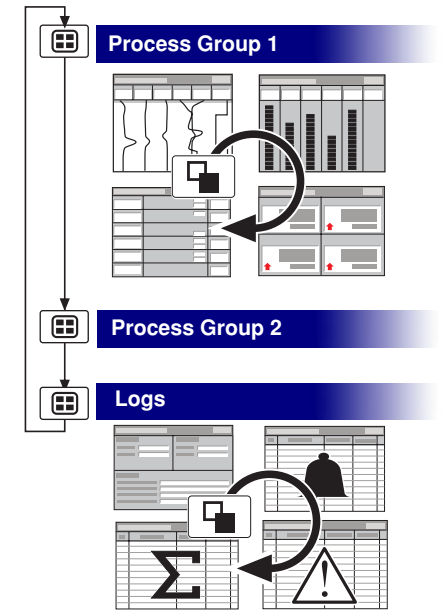
- A:-Analog I/P**
  - Mains Rejection Frequency
  - Input Scale/Offset Adjust
- C:-Relay**
  - Source & Polarity
- C:-Hybrid**
  - Digital Output Source & Polarity
  - Analog Output Source, Electrical Range, Engineering Range
- C:-RS485**
  - Protocol
  - 2-/4-Wire
  - Baud Rate
  - Parity
- C:-Ethernet**
  - IP Address
  - Sub-net Mask
  - Default Gateway
  - FTP Username/Password
  - Channels Report
  - Totalizers Report
  - External Media Report
- email 1**
- email 2**

## Functions



- Linearizer**
  - Breakpoints
- RTA1**
  - On Time
  - Duration
  - Weekly Enables
- RTA2**
- RTA3**
- RTA4**

# OPERATOR FUNCTIONS



- Setup
- Operator messages
- Alarm 1: Start of batch
- 7: End of batch
- 13 Standby mode active
- 19 Cleaning in progress
- <L No message
- No message

	Chart View	Bar View	Indicator View	Process View	Alarm Event Log	Totalizer Log	Audit Log
Configuration	✓	✓	✓	✓	✓	✓	✓
Set up	✓	✓	✓	✓	✓	✓	✓
Historical review	✓						
View select				✓			
Operator messages	✓	✓	✓	✓			
Chart annotation	✓						
Screen interval	✓						
Scales	✓						
Trace select	✓						
Channel select			✓				
Max/Min reset		✓			✓		
Totalizer stop/Go					✓	✓	
Totalizer reset					✓	✓	
Filter					✓	✓	
Alarm acknowledge	✓	✓	✓	✓	✓	✓	✓



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