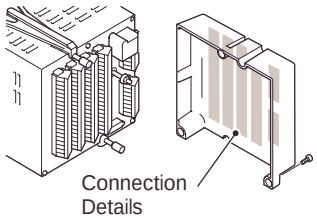
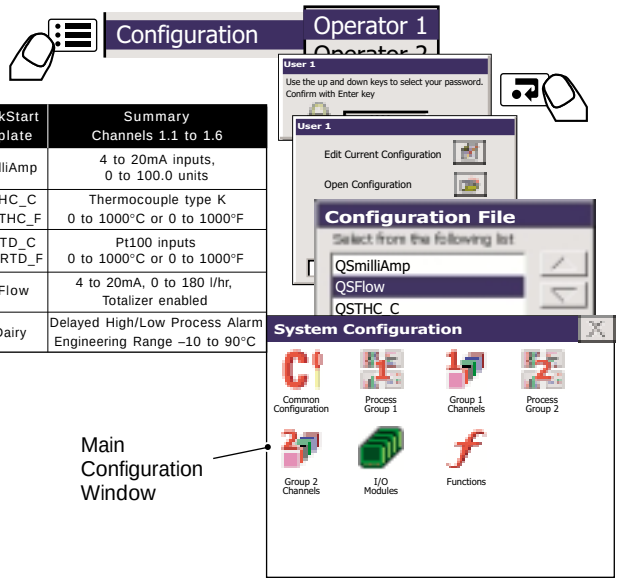
SM2000 – QUICK START GUIDE

1 Make Connections & Power-up the Instrument



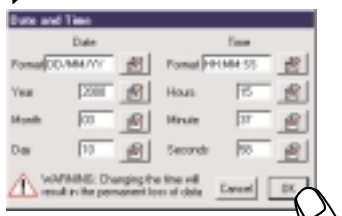
2 Select the Configuration Level and a Quick Start Template



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

3 Set the Time and Date

Common Configuration → Time



Exit Common Configuration

4 Set the Sample Rate

Process Group 1 → Recording

Chart speed	Sample Rate	On board storage	
10 mm/h	60s	12 months	6 Channels Enabled
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	

5 Select the Views Required and the Operator Menu Choices

Chart | Digital | Bar | Process

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)
- Exit Group Configuration

7 Change the Channel Configurations

Group 1 Channels

Use these keys to select different channels in the same process group.

- **Set Up**
  - Select the Channel Source
  - Set 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** / **Alarm B**
  - Select the Alarm type, set the alarm trip points, the tag and the hysteresis.
- **Totalizer**
  - Set the Count Rate, Preset & Predetermined Count values

Exit Channel Configuration

8 Set Up I/O

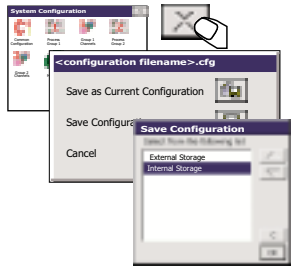
I/O Modules

Note. Modules fitted are detected automatically

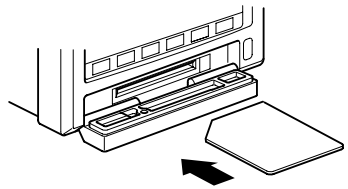
- **A:Analog I/P**
  - Set the Mains Rejection Frequency
- **B:Relay**
  - Select the Relay Source and the Relay Polarity
- **C:Hybrid**
  - Select the Analog Output Source & Ranges
  - Select the Digital Output Sources & Polarity

Exit I/O Module Configuration

9 Exit Configuration and Save Changes



10 Start Recording!



Insert media to start the archiving process automatically

Note. For detailed information on setting all configuration parameters, refer to the SM2000 User Guide, part number IM/SM2000.

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

RS485
- Protocol
- 2-/4-Wire
- Baud Rate
- Parity

Process Groups 1 and 2

Recording
- Group Tag
- Sample Rates
- Recording Enable

Chart
- Annotations
- Chart Divisions
- Screen Interval
- Operator Menu Options

Bar
Process
Digital
- Display On/Off &
- Operator Menu Options

Archive
- Channel Data, Log Archive Options
- Filenames
- Archive Rates (Advanced Config. Only)

Group 1 Channels and Group 2 Channels

Set Up
- Source ID
- Input Filter Type
- Recording Enable
- Sample Rates (Advanced Config. Only)

Analog i/p
- Input Type
- Tags, Units & Values
- Linearizer
- Fault Detection

Digital i/p
- ON Tag
- OFF Tag

Alarm A
Alarm B
- Type, Source, Tag,
- Trip Level
- Hysterisis
- Alarm Groups

Totalizer
- Source
- Count Rate, Cut-off, Direction
- Tag Name
- Totalizer Units
- Count, Preset, Intermediate & Predermined Values

Scales
- Primary Chart Range
- Secondary Chart Range

I/O Modules

A:-Analog
- Mains Rejection Frequency
- Input Scale/Offset Adjust

B:-Relay
- Source & Polarity

C:-Hybrid
- Digital Output Source & Polarity
- Analog Output Source, Electrical Range, Engineering Range

C:-Ethernet
email 1
email 2
- IP Address
- Sub-net Mask
- Default Gateway
- FTP Username/Password
- Channels Report
- Totalizers Report
- External Media Report

Functions

Custom Linearizer
- Breakpoints

RTA1
RTA2
RTA3
RTA4
- On Time
- Duration
- Weekly Enables

The Company's policy is one of continuous product improvement and the right is reserved to modify the information contained herein without notice.

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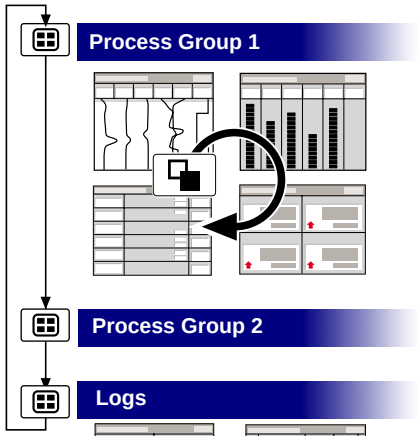
OPERATOR FUNCTIONS



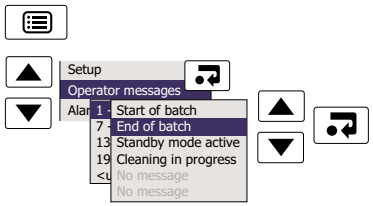


	Chart View	Bar View	Indicator View	Process View	Alarm Event Log	Totalizer Log	Audit Log
Configuration	✔	✔	✔	✔	✔	✔	✔
Set up	✔	✔	✔	✔	✔	✔	✔
Historical review	✔						
View select				✔			
Operator messages	✔	✔	✔	✔			
Chart annotation	✔						
Screen interval	✔						
Scales	✔						
Trace select	✔						
Channel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