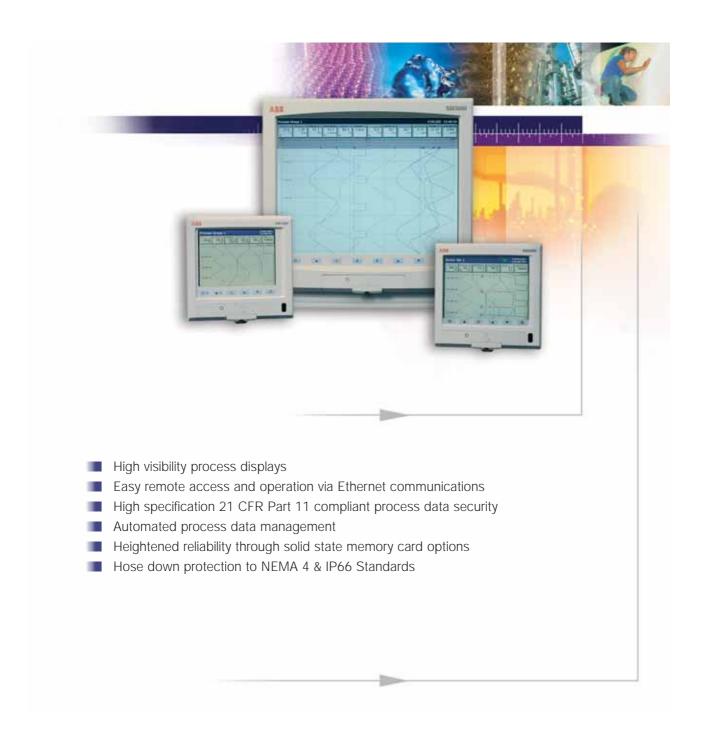
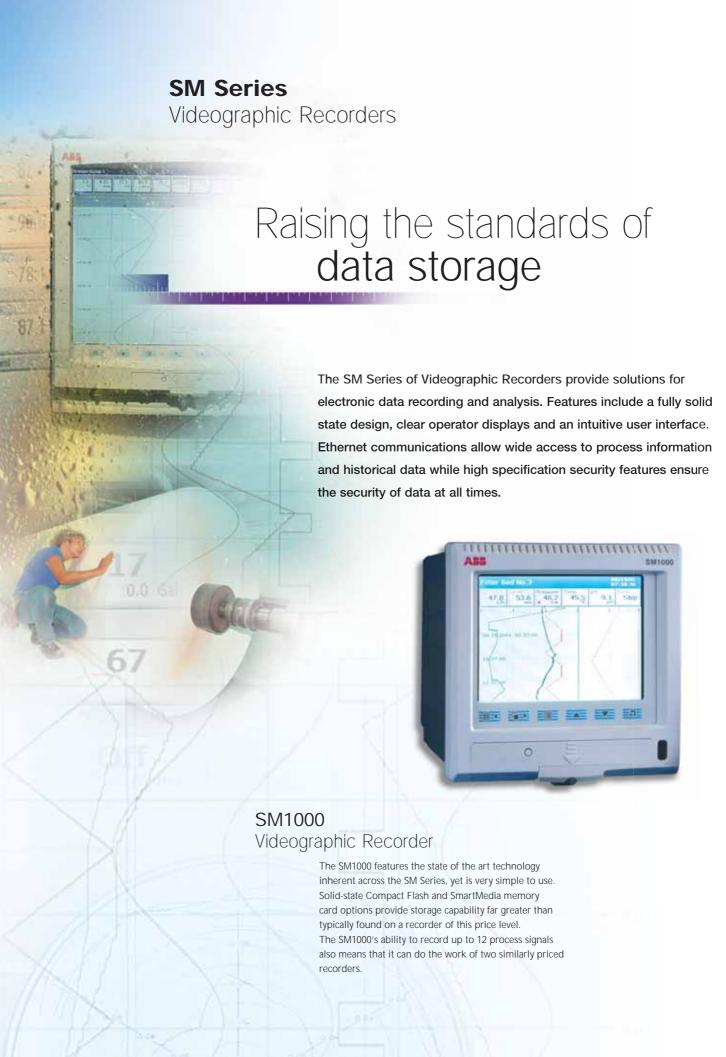
## **SM Series Videographic Recorders**

A clearer view of your process







#### SM2000

### Advanced Videographic Recorder

The SM2000 Advanced Videographic Recorder provides advanced functionality recording and high specification hardware features, making it suitable for almost any recording application.

The Windows™ style operator interface is simplified further by the SM2000's touch sensitive display, effortlessly guiding the operator through the configuration and enabling the rapid entry of text information using an on-screen keyboard. The high clarity of the TFT display ensures maximum visibility of process information.

A high capacity 8Mb internal memory allows the operator to review large amounts of process data history on-screen. Optional math and logic capabilities and advanced configuration mode enable the SM2000 to take on demanding applications with ease.



# robust and convenient archive storage



#### SM3000

### Multi-point Videographic Recorder

Multipoint process monitoring is made simple by the SM3000. Up to 36 channels can be recorded - each channel features 4 process alarms and 2 flow totalizers. 6 process groups are provided, allowing channels to be grouped together and individual displays created for different processes.

The large 31cm (12.1in), bright and clear display maximizes visibility of process data. It allows the use of a wide variety of displays, including a circular chart format and an overview of all 6 process groups.

## Secure, Precise, Reliable Recording

#### Intuitive User Interface

All operation of the SM Series is done via Windows style menus and dialogs that effortlessly guide the operator through the functions they require. A channel-by-channel approach to the configuration layout ensures simple and fast setup.

### Thriving in Real Process Conditions

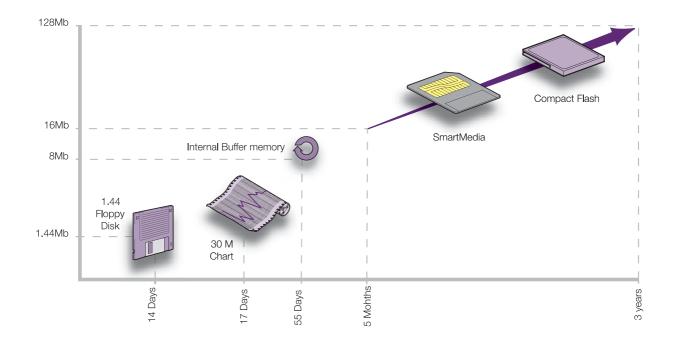
Uniquely for a product of this type, the SM Series has a protection rating of NEMA 4X & IP66. This enables it to be installed, without additional protection, in applications that require frequent hose-down.



### Industrial Standard, High Capacity, Robust Archive Storage

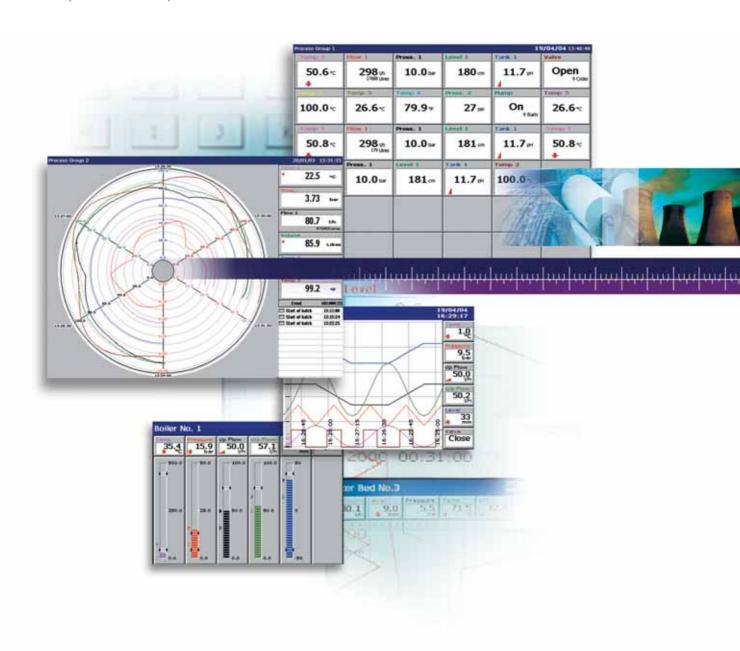
Either Compact Flash or SmartMedia memory card options are available for storage of process data. The solid-state nature of these devices provides maximum reliability, while their large storage capacity ensures minimum operator intervention to retrieve process data.

The graph below shows the time that a memory card will last when recording 6 channels at a sample rate of 10 seconds.



### A Clear View of Your Process

Multiple display formats, including strip and circular charts, bargraph, digital indictor and process displays, provide a clear view of process information.



## Guaranteed Data Security

The recorder's internal flash memory used to store process data and configuration details is not reliant on battery backup to retain data during power failures.

Multiple users can be configured, each with individual user name, password and access rights. A comprehensive audit log records configuration changes, calibration changes, system events and many other items key to data security. Where applicable, all entries are detailed with operator identification.

A media door lock is provided as standard to ensure the security of the memory card.

The SM Series' standard compliment of compressive security features ensure that it is fully compliant to the requirements of 21 CFR Part 11.



#### **Email Notification**

Any Ethernet equipped SM Series Recorder is capable of sending email notification of important events. Emails can be triggered from process alarms or other key events and can be sent to multiple recipients. Detailed process reports can also be emailed at scheduled times.

#### Automatic Data File Collection

All process data files created by an SM Series Recorder can be remotely accessed via its Ethernet connection.

Using ABB's File Transfer Scheduler software it is possible to automatically collect data files from any number of records.

## DataManager

Analysis of process data archived by an SM Series Recorder can easily be performed using DataManager advanced analysis software. In addition to charting process data and the validation of file security, DataManager provides database management of all data files and historical logs archived by any number of recorders. This enables secure long-term storage and simple retrieval of process data.



# **SM Series Videographic Recorders**

Model	SM1000	SM2000	SM3000
General Features			
Display	125mm (5 in) STN	140mm (5.7in) TFT	310mm (12.1in) TFT
Operator Interface	Tactile Keys	Touchscreen	Tactile Keys
Internal Memory	1Mb Flash	8Mb Flash	8Mb Flash
Memory Card	Compact Flash or SmartMedia	Compact Flash or SmartMedia	Compact Flash or SmartMedia
Number of Recording Channels	12	12	36
Process Groups	2	2	6
Process Connections			
Universal Analog/Digital Inputs	6 or 12	6 or 12	up to 36
High Specification Analog Inputs		•	•
2 Wire Transmitter Power Supply	8 Loops optional	2 Loops Standard, 8 optional	2 Loops Standard, 8 optional
Relays			
Digital Inputs	18 optional	18 optional	24 optional
Digital Outputs	18 optional	18 optional	24 optional
Analog Outputs	6 optional	6 optional	8 optional
MODBUS RS485	•	<b>√</b>	•
10BaseT Ethernet	•	•	✓
Advanced Processing			
Alarms	24	24	144
Totalizers	12 optional	12 standard	72 standard
Advanced Math/Logic		•	•
PC Configuration	Free of Charge	Free of Charge	Free of Charge
Data Security	21 CFR Part 11 Compliant	21 CFR Part 11 Compliant	21 CFR Part 11 Compliant
Physical Attributes			
Terminal Compartment	•	✓	•
IP Rating	NEMA 4X & IP66	NEMA 4X & IP66	NEMA 4X & IP66
Panel Cut Out	138x138mm (5.43x5.43in)	138x138mm (5.43x5.43in)	281x281mm (11.06x11.06in)
Power Supply	85-265V ac or 24V dc	85-265V ac or 24V dc	85-265V ac or 24V dc
Overall Size	144x144x239mm	144x144x239mm	288x288x245mm
	(5.67x5.67x9.4in)	(5.67x5.67x9.4in)	(11.34x11.34x10in)

<sup>• =</sup> Optional ✓= Standard

## **SM Series Videographic Recorders**

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ABB is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact.

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