



# SM500F: built to survive

The world's first field mountable  
videographic data recorder.

At last, a videographic recorder that's as tough as the environments in which it has to work - the new SM500F from ABB.



The world's first field mountable videographic data recorder has arrived. For use anywhere, anyhow and by anyone, the new SM500F is a four-channel recorder you can install in even the most hostile environments. It takes recording out of the control room and offers you localized access to operational data.

A choice of mounting options means the SM500F can be installed in virtually any location, from panel and wall to pipe. It's fully sealed IP66 and NEMA 4X enclosure provides full protection against water and dust ingress, so the SM500F is ideal for hosedown and dirty applications. The result? You can rule out the costs associated with building a separate enclosure.

**The answer's yes.**  
Now, what's the application?

Fully compliant with the FDA's (Food and Drug Administration) 21 CFR Part 11 regulations concerning electronic process data collection, the SM500F is ideal for any installation where you need local indication and recording of process conditions. Typical applications include the monitoring of temperature, humidity, cold storage, warehouses, effluent and boreholes.

## **Fast and simple to install, set-up, commission and use**

So that you can get immediate benefit from the SM500F, you'll find its user-friendly display and interface mean setting up and using it is simplicity itself. Front-mounted pushbuttons allow easy selection of data, which is presented in a user-friendly Windows™ environment. Commissioning, setting and fine tuning are all also straightforward, thanks to clear, concise menus. Added support is provided by an extensive context sensitive online help feature.

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## Accessing, analyzing and actioning data made easy

When it comes to viewing data, the SM500F is available with a choice of either colour or monochrome displays. Process data is presented in your choice of formats, including chart, bar graph and digital indicator views. Historical logs also provide you with access to alarm, totalizer and audit trail data. Secure archiving is delivered via a removable SD card with up to 2Gb capacity.

For remote monitoring, the SM500F's onboard web server provides you with access to real-time data using the Microsoft Internet Explorer platform. The SM500F's built-in Ethernet communications link enables historical data to be remotely downloaded to a PC for subsequent analysis via ABB's DataManager software. This link also provides you with the ability to interface with a SCADA system using Modbus TCP protocol.

As with the other solutions in the SM recorder series, the SM500F can send you email notifications whenever an alarm occurs. This ensures any potential problems are promptly addressed. You can also choose to receive email status reports at any time, providing a clearer overview of process conditions.



Another key benefit is a clock synchronisation function, which allows the SM500F to be synchronised with other installed SM recorders. This means that all recorded data is stamped with the same times and dates regardless of its origin, making it easier for you to identify potential causes when problems occur. Crucially, it also enables you to accurately trace other events in the process that occurred at or around the same time.

## High return on investment, low cost of ownership

The new SM500F makes absolute commercial sense. Not only does it help protect your operation critical activities, it delivers reduced cost of ownership compared to paper chart recorders. With no parts requiring replacement, the SM500F offers you a much lower lifecycle cost than 1-2 pen paper chart devices traditionally used for these types of applications. For further budgetary savings, the SM500F is also available to you in a low cost monochrome version.



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