

## SM 12 Datalogger and Alarm



The SM 12 microprocessor-based datalogger with 12 fully sealed plug-in PT100 platinum film sensors uses the novel approach of a paperless logging and filing system, which allows the data of any day in its history to be read and examined with just a few key presses.

The large graphics LCD display communicates the information to the user with clarity, making programming and setting up friendly and uncomplicated, without compromising its sophistication and digital accuracy.

### SM 12 Technical Description

- 12 Channel Datalogger - Temperature / Humidity
- Fully programmable High and Low Alarm Facilities
- Graphic and Digital Temperature Displays
- Displays current and stored data - Temperature / Humidity
- Internal re-usable Databank
- Internal RS 232 feature for PC connection
- Built in Thermomax Network Connections (RS485)
- Complies with EU EMC 89/336/EEC
- Complies with the Low Voltage Directive 73/23/EEC

### Features

#### General

- Internal re-usable Databank
- User can set sample period to 1 / 5 / 15 / 30 / 60 minutes
- Sensor Type:SXTM PT100 Platinum Film
- 4 x Volt free Alarm Relay contacts (Software programmable)
- Supply Voltage: 220 - 240 V AC ; IP 55 Rating
- Ambient Temperature (0° to +40°C)
- Temperature resolution of 0.5°C.
- Temperature / Humidity Range (-100°C to +150°C / 0% to 99%rH)
- PC connection facility with increased data download rate
- Monitoring of 12 Digital Inputs (Door switches)

## Alarm Functions

- 2-Stage high and low level alarms with mute and reset facilities.
- Stage 1 temperature threshold with trigger delay.
- Stage 2 limit temperature with immediate trigger.
- Status window for system fault indication.
- Diagnostics screen revealing system parameters.
- Alarm history record for low alarm, high alarm and power fail.
- 4 Alarm relays for external device.
- Battery back-up for power-fail operation.

## SPECIFICATION ELECTRICAL:

Supply:		220 - 240V AC Single Phase
Fuses:		2 x 1A 20mm Quick Blow
Relay Outputs:	Alarm Relay:	5A Changeover 3 Pin Isolated (Volt-free Contacts). May be used with low or mains voltage.
Battery:	PP3 Rechargeable	9V

## SPECIFICATION MECHANICAL:

DIMENSIONS:	SM 12:	Width:	281mm
		Height:	223mm
		Depth:	66.5mm
	Sensor:	Diameter:	7.3mm (8.5mm for heat shrink)
Weight:	SM 12:	1.8Kg	
	Sensors:	0.13Kg	
Box material:	Plastic		
Front Panel:	Reverse Printed		
Display:	Large LCD supertwist graphics		
Sensors:	Type:	SX™ PT 100 Platinum Film	
	Compensation:	3 Wire Compensated	
	Cable Length:	5m to 50 m	

## PARTS LIST:

C0488	SM 12
A6905	Sensor (5m Cable)
A6915	Sensor (15m Cable)
A6925	Sensor (25m Cable)
A6950	Sensor (25m Cable)
C0322	Masterlink Software
A6911	Sensor Extender (10m)
A6921	Sensor Extender (20m)
A6951	Sensor Extender (50m)
C0429	Humidity Sensor
A6936	Wall bracket for humidity sensor