# Measurement Control and Datalogging Technology











S101-1/1 0607

Tempcon Instrumentation Ltd.
Unit 19 Ford Lane Business Park Ford Lane
Ford Nr. Arundel West Sussex BN18 0UZ

## **4000 SERIES SMALL FRAME RECORDERS**



## 4101 ANALOGUE

Clear Analogue Display High Visibility Pens Annotation

Pre-configured & Ready for Use

Available as either a 4 pen continuous or 6 pen multipoint recorder, the 4101 is ideal for simple, low cost applications. The units are supplied pre-configured, thus reducing commissioning time.



## 4102 CONFIGURABLE

Digital Display
User Configurable
Input Adjust

Remote Chart Control

The 4102 provides all the features of the 4101. The use of a digital display allows for viewing of Process Variables and alarm status. The additional keypad provides access via password to the configuration parameters.



### 4103 PROGRAMMABLE RECORDER

Digital & Bargraph Display

Data Archiving

Communications

**Powerful Maths Pack** 

The 4103 is a high specification chart recorder, with annotation and basic maths fitted as standard. Optional add on features such as a PCMCIA card slot and Modbus™ communications make this an ideal Data Acquisition

4101C 4101M 4102C 4102 4103C 4103M

SYSTEM RANGE			3000	3000	Sadas	Seeds
	4101C	4101M	4102C	4102M	4103C	4103M
Continuous Pen	0		0		0	
Multipoint Dotter		0		0		0
Number of Inputs	1 to 4	6	1 to 4	6	1 to 4	6
Digital Display			•	0	•	•
User Configurable			•	0	•	•
Annotation	0	0	0	0	0	0
Chart Illumination			0	0	0	0
Relay Outputs	0	0	•	0	0	0
Contact Inputs	0	•	•	0	0	•
Communications		1700			•	•
Retransmission					0	0
Data Archiving			1		0	0
Basic Maths					0	0
Advanced Maths†					0	0
Low Voltage Supply	0	0	0	0	0	0
Portable			0	0	0	0
PC Configuration	0	0	0	0	0	0

†Includes Counters, Timers and Totalisers





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## **4000 SERIES LARGE FRAME RECORDERS**



## 4181M RECORDER

48 I/O Channels **Data Archiving Powerful Maths Pack** 

Communications

The 4181 is a versatile, compact 180mm multipoint chart recorder, capable of displaying up to 48 channels, supporting a wide range of powerful options which include maths pack, serial communications and data archiving.



## 4250M RECORDER

96 I/O Channels **User Selectable Inputs Data Archiving** 

3 User tables

With multipoint recording on a 250mm wide chart the model 4250 can monitor up to 96 channels. Reporting features allow data such as batch numbers and totaliser values to be printed to the chart at regular intervals. When fitted, this data can be stored on an integral PCMCIA card and transferred for viewing and printing on a PC, using Eurotherm's Review software.

#### 4 1 8 1 M 4 2 5 0 M

F-4-1 (			A heat treatments		
Total indicating range	Max. temp. increment per mm of scale	Max. interval between scale divisions	Chart width required		
<400°C	4°C	10°C	100mm		
<750°C	4°C	10°C	180mm		
≥750°C	4°C	10°C	250mm		

## Providing temperature and vacuum recording for the most demanding applications

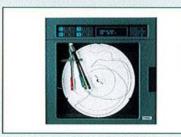


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## **CIRCULAR RECORDERS**



### **392 CIRCULAR RECORDER**

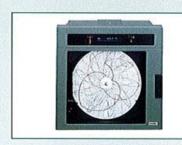
Choice of up to 4 Pens

Clear Circular Chart

**User Configurable** 

**Custom Linearisation** 

The 392 circular chart recorder is particularly useful if you need to review longer-term trends in a single glance. The choice of 12 hour, 24 hour or 7 day charts assist with this. Another option is the extremely useful maths pack further increasing the recorder's capabilities.



## 394 ANNOTATING CIRCULAR RECORDER

4 Colour Printing

Logging to PC Card

Annotation

**Modbus Communications** 

The 394 is a clear step forward in circular trending technology. Four colour printing together with annotation produces a clear and easy to read chart. The unit is fully configurable from the front panel or via the optional PC card reader. Up to two Controllers can be added enabling the 394 to control, as well as record the process.

3 9 2 3 9 4

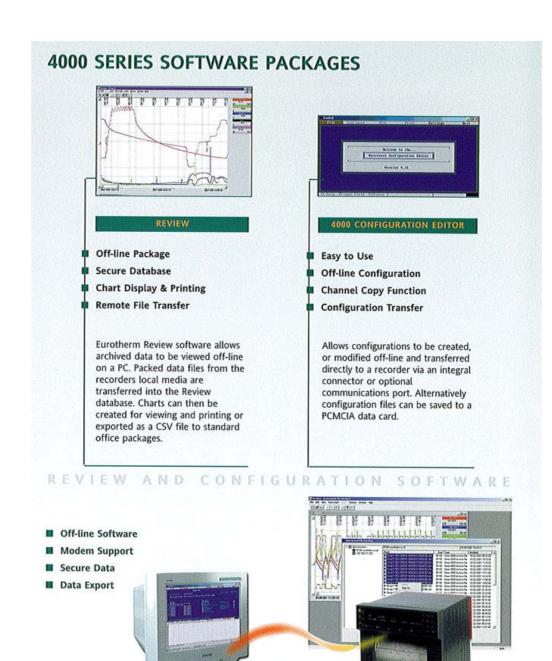
## **SELECTION GUIDE**

						0	0
	4101	4102	4103	4181M	4250M	392	394
Continuous	1 to 4	1 to 4	1 to 4	O No.		1 to 4	
Multipoint	6	6	6	48	96	The second	6
Display Type	Analogue	Digital	Digital	Digital	Digital	Digital	Digital
Chart Width	100mm	100mm	100mm	180mm	250mm	10"	10"
Annotation	0	•	•	•	•		•
Relay Outputs	•	•	•	•	•	•	•
Retransmission Outputs		113231	•	•	•	•	•
Contact Inputs	•	•		•	•	•	•
Modbus Communications	58(645)			•	•	Design to	•
Memory Card	F 11 X (5)	DEMONSON	•	•	•	Name of the last	•
Mathematics			•		•	•	•
Counters, Timers & Totalisers			0	•	•	•	0
PC Configuration	•	•	•	•	•		•

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Secure Data

Recorder data is logged in a binary format, compressed using a proprietary algorithm, encoded and check summed to inhibit data tampering.

## Minimum System Requirements

Review - The PC must be running Windows® 2000, NT4.0 or XP. For Windows® 98 please see readme.txt file on CD. For all operating systems, Internet Explorer 4.01 or above must be installed.

The PC must be set to at least 65536 colours.

At least 32Mb RAM is required, with 64Mb perferred.

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