

SENSORS

FOR

VELA ♦ CHART RECORDERS
MICROCOMPUTERS
LABORATORY METERS



- ♦ Low cost professional measurement system.
- ♦ Robust reliable sensors for all the sciences.
- ♦ Fully calibrated system.
- ♦ Simple plug together modules requiring no wiring.
- ♦ Supporting software for BBC Series, IBM™ and Apple microcomputers.
- ♦ Vela reads in the correct physical units.

A FULLY INTEGRATED MEASURING SYSTEM

SENSORS...

◆ CALIBRATED SYSTEM

STRAIN
Order No. 2280

◆ DURABLE

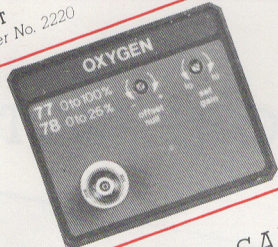
pH
Order No. 2250



LIGHT
Order No. 2220

◆ ONLY 1 POWER SOURCE FOR ALL SENSORS

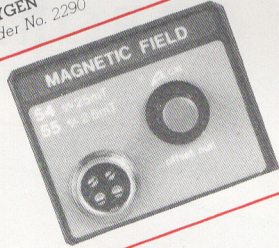
◆ PLUG TOGETHER SYSTEM



OXYGEN
Order No. 2290

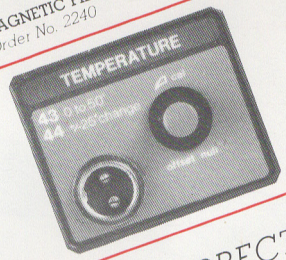
◆ LOW COST

◆ CHOICE OF BASES SAM1-SAM4



MAGNETIC FIELD
Order No. 2240

◆ RELIABLE



TEMPERATURE 0-50 C
Order No. 2211

◆ FLEXIBLE OUTPUTS

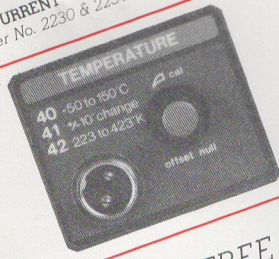
◆ VELA READS IN THE CORRECT UNITS



DC CURRENT
Order No. 2230 & 2231

◆ MODULAR

◆ OFFSET CONTROLS FOR RELATIVE READING



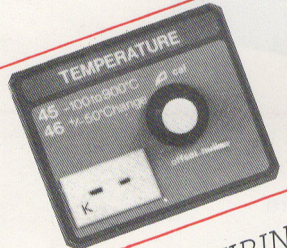
TEMPERATURE -50-150 C
Order No. 2210

◆ ROBUST PROBES

◆ VERSATILE SOFTWARE FREE



VARIABLE GAIN AMP
Order No. 2310



TEMPERATURE -100-900 C
Order No. 2212

◆ EXPANDABLE SYSTEM



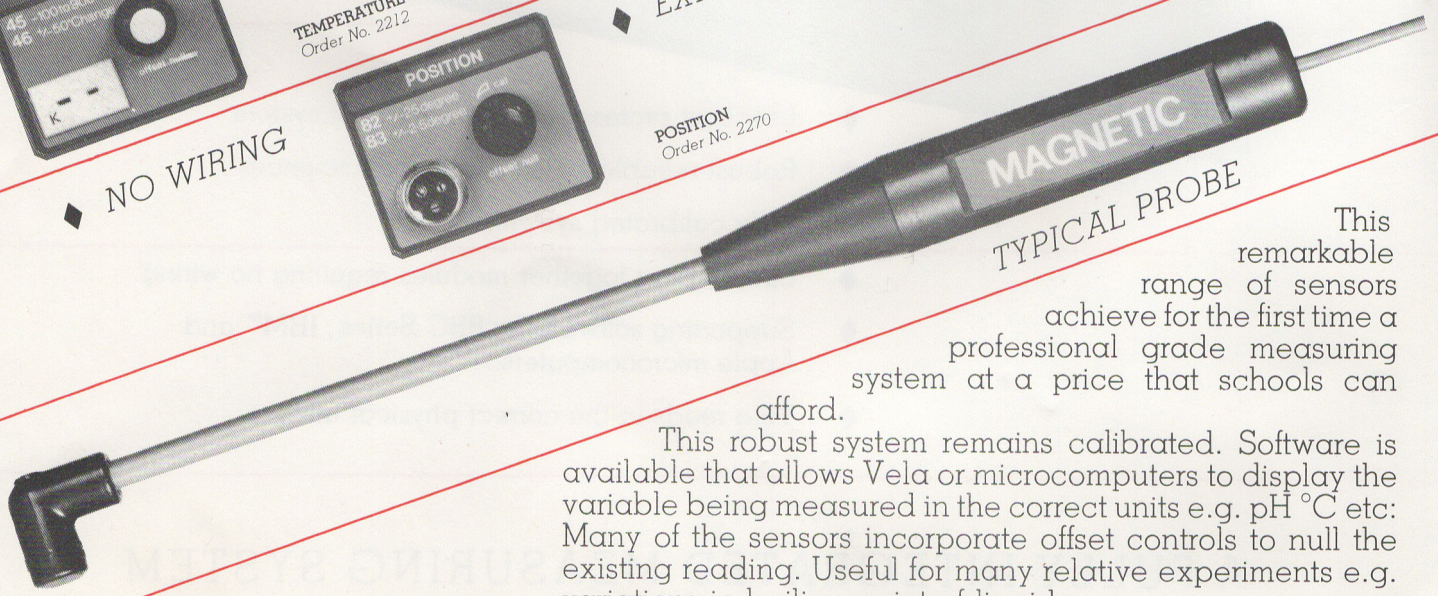
PRESSURE
Order No. 2260

◆ NO WIRING



POSITION
Order No. 2270

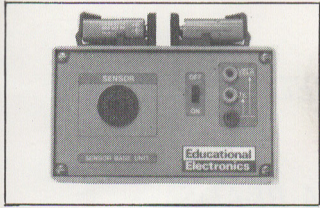
◆ TYPICAL PROBE



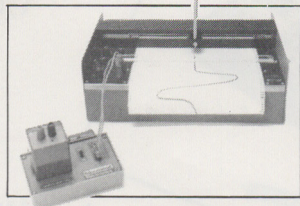
This remarkable range of sensors achieve for the first time a professional grade measuring system at a price that schools can afford.

This robust system remains calibrated. Software is available that allows Vela or microcomputers to display the variable being measured in the correct units e.g. pH °C etc: Many of the sensors incorporate offset controls to null the existing reading. Useful for many relative experiments e.g. variations in boiling point of liquids.

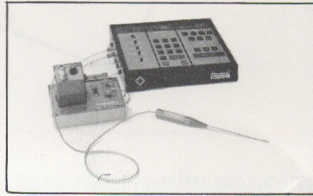
SAM 1 makes the invisible visible



- ◆ LOW COST SINGLE CHANNEL BASE UNIT
- ◆ ONLY ONE PSU REQUIRED FOR ALL SENSORS
- ◆ FREE SOFTWARE WITH CONNECTING CABLE
- ◆ EPROM AVAILABLE FOR VELA SO THAT IT READS CORRECT UNITS (MKII only)



- ◆ ULTIMATE FLEXIBILITY
- ◆ OUTPUT $\pm 2.5v$ FOR VELA
- ◆ OUTPUT 0-1v FOR CHART RECORDER
- ◆ OUTPUT COMPATIBLE FOR OTHER METERS AND INTERFACES

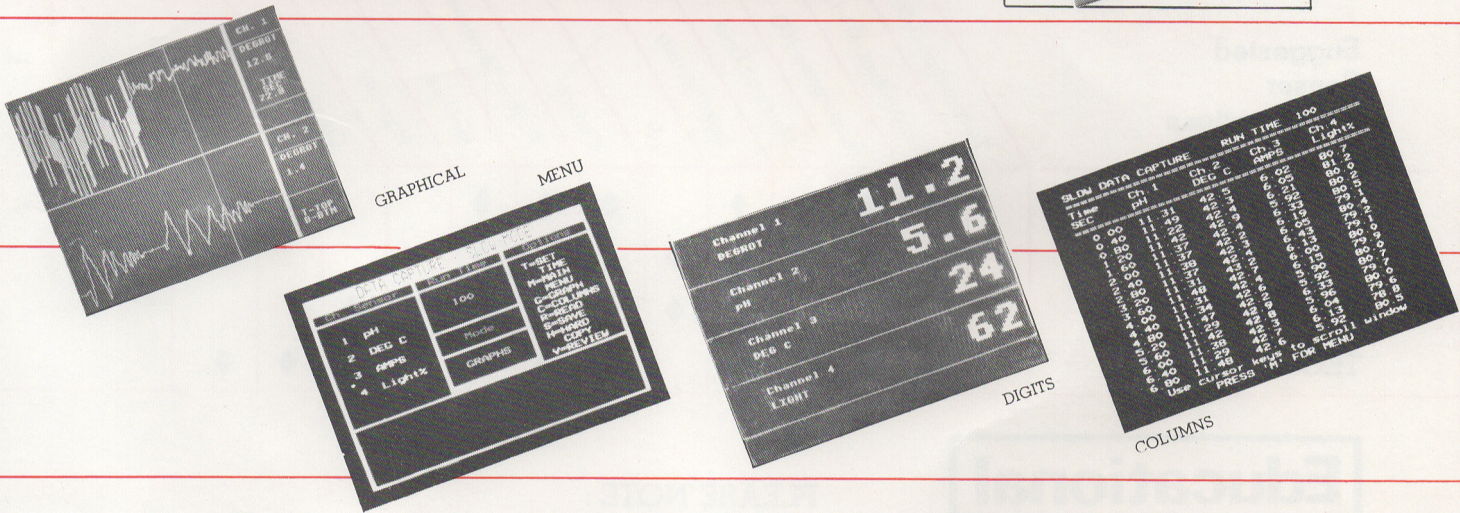


- ◆ SUITABLE FOR FIELD USE
 - ◆ BATTERY POWERED
 - ◆ FLEXIBLE OUTPUTS
- BBC CONNECTING CABLE
Order No. 2005
APPLE CONNECTING CABLE
Order No. 2010

SAM SOFTWARE...



SAM 1
Order No.
2000

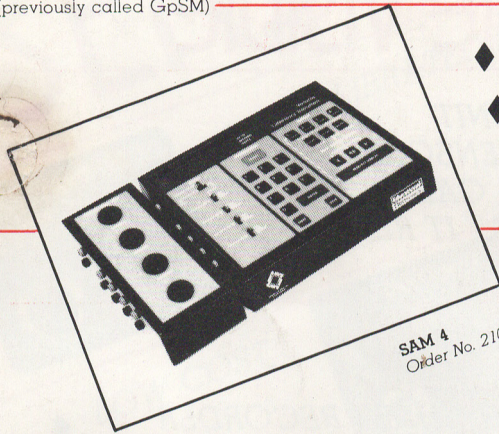


SAM 1 Software : is an easy to use, single keystroke, menu driven package giving graphical, digital and columnar displays. Experimental data can be saved and retrieved from disc. The package incorporates hard-copy facilities. A moving cursor gives digital measurements from graphical displays. Relationships between physical quantities can be investigated as any variable can be plotted against any other. The software is fully calibrated for accurate quantitative results.

Whilst the majority of experiments can be performed with a single SAM 1 the software supports up to four SAM 1's, thus allowing relationships between variables to be investigated.

SAM 4...

(previously called GpSM)

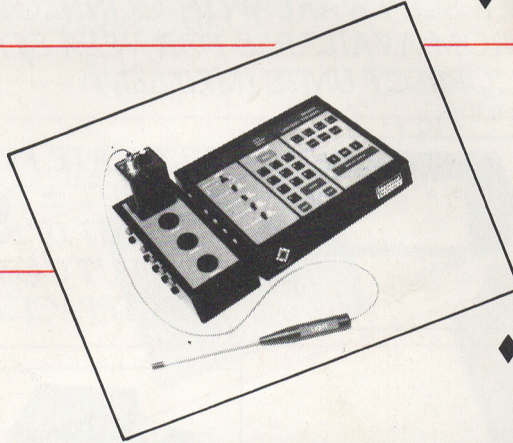


SAM 4
Order No. 2100

- ◆ EXCLUSIVELY FOR USE WITH VELA
- ◆ ACCEPTS UP TO FOUR SENSORS

◆ SUPPLIED WITH PSU

◆ VELA READS CORRECT UNITS



◆ VELA CAN BE USED CONVENTIONALLY WITH BASE UNIT FITTED

◆ SUPPLIED WITH SAM EPROM

SAM 4 provides maximum convenience when using up to four sensors with Vela. SAM 4 plugs directly into the side of Vela and is provided with its own power supply. The base unit attaches to the side of Vela and becomes an integral part of the instrument. SAM 4 is supplied with an EPROM that fits into Vela enabling it to give digital readings in the correct physical units. Vela can of course, be operated in the usual way without removing the base unit when sensors are not connected to a particular channel.

Suggested Sensor Combinations	Sensors												
	Temperature 0-50 C	Temperature -50-150 C	Temperature 100-900 C	Magnetic Field	Light Intensity	pH	Current	Position/Movement	Pressure	Humidity	Oxygen	Strain	Variable Gain Amplifier
PHYSICS	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
CHEMISTRY	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
BIOLOGY	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
TECHNOLOGY	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

Educational Electronics

PLEASE NOTE :

Pricing

This price list supercedes all previous lists. All prices are exclusive of Postage, Packing, Insurance and VAT where applicable. Educational Electronics reserve the right to change price and specification without prior notice.

Ordering

Please quote product numbers when ordering. Conditions of sale available on request.

Specifications

Product details available on request. Power supplies are for 240v 50Hz operation. All BBC B Software is supplied in 40 track format.

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