

VELA

HARDWARE
AND SOFTWARE
EXTENSIONS

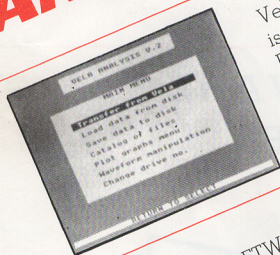


- ◆ Software - BBC
- IBM™
- Apple™
- ◆ Sensors
- ◆ Eproms
- ◆ Accessories

**Educational
Electronics**

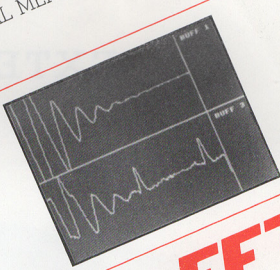
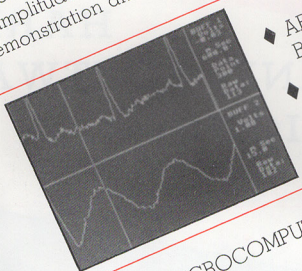
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VELA ANALYSIS II



Vela Analysis II is a comprehensive general purpose Data Handling software package providing clear graphical displays with cursor measurement of both time and amplitude. The software provides an easy way of using VELA in demonstration and lectures.

- ◆ ABILITY TO PLOT RELATIONSHIPS BETWEEN CHANNELS XY PLOTTING
- ◆ A CURSOR PROVIDES ACCURATE DIGITAL MEASUREMENTS



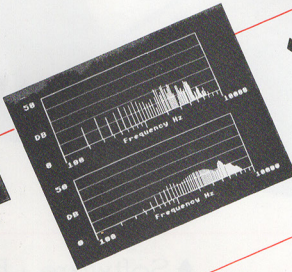
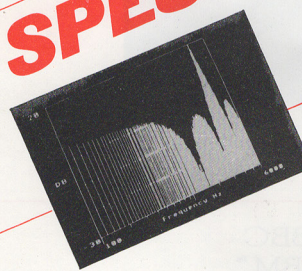
- ◆ FAST MENU DRIVEN SOFTWARE
- ◆ HARD COPY SCREEN DUMPS
- ◆ ARCHIVING FACILITIES
- ◆ WAVEFORM MANIPULATION

◆ SOFTWARE FOR BBC SERIES IBM AND APPLE MICROCOMPUTERS

- 1040 Vela to BBC Cable
- 1044 Vela to Apple Cable
- 1045 Vela to IBM Cable
- 4000 Apple User Port
- 4001 IBM User Port

- Order No. BBC VELA ANALYSIS II
- 1010 Apple VELA Analysis I (requires our Apple user port)
- 1012 IBM VELA ANALYSIS II (requires our IBM user port)

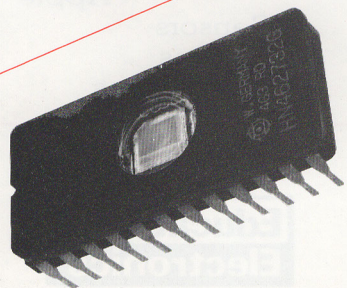
SPECTRUM ANALYSER & FFT



- ◆ ALLOWS VELA TO ACT AS A SPECTRUM ANALYSER
- ◆ SUPPORTS THE DISPLAY OF TWO SPECTRA
- ◆ OPTIONS OF LOGARITHMIC OR LINEAR SCALES
- ◆ DIGITAL READ OUT OF FREQUENCY AND AMPLITUDE
- ◆ SUPPLIED ON AN EPROM AND DISC FOR THE BBC MICROCOMPUTER

Order No. BBC 1013

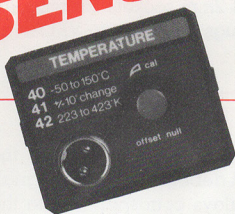
EPROMS



ISL 2 UTILITIES has twenty three routines that extend the standard features and provide powerful programming tools for the advanced user. Routines include 100 microseconds timer, realtime logging with suitable microcomputers together with a disassembler and downloader for microcomputers.

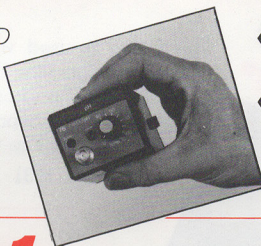
Order No MK1 1023
MK2 1020

SENSORS



To compliment VELA a range of calibrated high quality sensors are available. The range covers Temp, pH, Oxygen, Mag Field, Light, Pressure, Strain etc. A detailed brochure is available on request.

- ◆ CALIBRATED
- ◆ MODULAR
- ◆ ROBUST
- ◆ LOW COST



- ◆ VELA READS IN THE CORRECT PHYSICAL UNITS
- ◆ PLUG TOGETHER SYSTEM

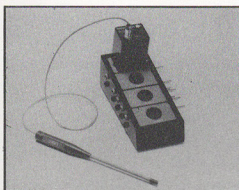


SAM 1

- ◆ LOW COST SINGLE CHANNEL UNIT
- ◆ MULTIPLE OUTPUTS
± 2.5v FOR VELA
0-1v FOR CHART RECORDER

- ◆ OUTPUTS COMPATIBLE FOR METER AND OTHER INTERFACES
- ◆ BATTERY POWERED

Order no 2000



SAM 4

- ◆ 4 CHANNEL BASE UNIT EXCLUSIVELY FOR VELA
- ◆ SUPPLIED WITH SAM EPROM AND PSU

Order no 2100

Purchasing an additional Eprom greatly enhances Vela's already extensive versatility. There are three spare sockets inside Vela into which these Eproms reside. They can be fitted in under five minutes with the aid of only a screwdriver, further details on each Eprom available on request.

ISL3

GRAPHICS AND ELECTRONIC TEACHING facilities are covered by this Eprom's twenty routines. The Graphics section is a comprehensive suite of programs that allow Vela to be directly connected to Centronics compatible printers (connecting cable - order no 1043). The data stored in Vela can be printed in tabular or graphical form. The Electronics teaching routines work in conjunction with the Logic Tutor Board (Order no 1031), together they provide a unique way of demonstrating Logic gates. Topics covered, include, AND, OR, ADDER, J-K Flip flops, RS flip flops etc.

Order No MK1 1024
MK2 1021

ISL4

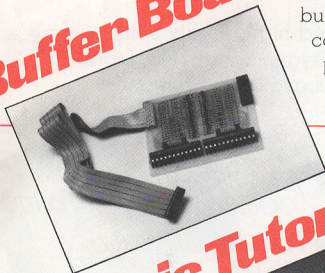
PHYSICS An essential extension for physics teachers. The twenty routines turn Vela into: Energy Meter, phase meter, accelerometer, rate meter, speed measurement etc. A separate 62 page experimental manual is available for this Eprom (Order No 4011)

Order No MK1 1025
MK2 1022

NB MK1 Vela's - ISL3 and ISL4 share the same socket. To use both Eproms the rom extension board is required. (Order no 1032).

MKII Vela's - ISL4 and the Sam Eprom share the same socket. To use both Eproms the rom extension board is required (Order no 1032).

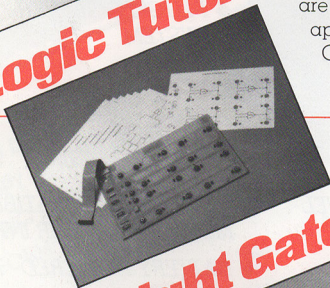
Buffer Board



When Vela's Input/Output port is used for control or connection to other circuits the buffer board provides protection to the user port and a convenient way of making connections via 12 way molex, screw terminals and 2mm sockets. Protection is provided up to $\pm 25v$ overload and the board plugs directly into VELA.

Order no. 1030

Logic Tutor



This board is used with the logic circuit emulator programs in the Electronics teaching Eprom ISL3. Clock and debounced switch signals are provided on board. Eight plastic overlays corresponding to the appropriate gate patterns are provided. Topics covered include AND, OR J-K & RS Flip flops ADDERS etc.

Order no. 1031

Light Gate



A versatile low cost light gate built in a robust housing. The light source is powered directly from Vela's. +5v supply. The detector provides a logic level output suitable for Vela's pulse input. Enhances the use of program 05.

Order no. 1035

BOOKS ON VELA

Vela 62 experimental worksheets together with a comprehensive Teachers Guide for the Physics Eprom (order no 1022 & 1025)

Order no 4011

Vela Software Reference Manual (previously called Application Manual)

Order no 4010

Vela Microsystems Through Control

Order no 4012

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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.