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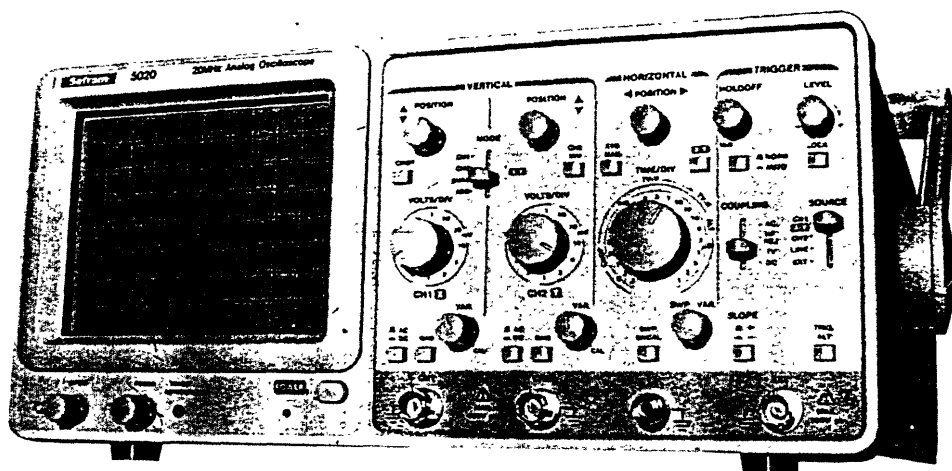
SEFRAM 5020
20 MHz Analogue Oscilloscope

Sefram

Discover an oscilloscope with a new and unique standard of **QUALITY/PRICE.**

Capabilities

- 20 MHz, dual channel
- High sensitivity 1 mV/Div.
- CH1 output
- TV, ALT triggering functions
- Z axis input
- HOLD OFF function



SEFRAM 5020

An analogue oscilloscop for everyday use

In many equipment service and educational applications, it is important to view signals in real-time without analogue-to-digital conversion or storage delays. Today, only an analogue oscilloscope can meet these requirements. With the model SEFRAM 5020, Sefram offers a unique solution that features high performance at an affordable price.

Ease-of-use, performance and price

The SEFRAM 5020 oscilloscope features a 20 MHz bandwidth and a time base range to 50 ns/div. It has a built-in 1 kHz fast rise-time calibration signal to enable the compensation of high quality probes to be adjusted precisely. In dual channel operation, the oscilloscope automatically selects between CHOP and ALTERNATE operating modes depending on the time-base range setting. The competitively priced, high quality and easy-to-use oscilloscope for everyday applications.

SEFRAM 5020
20 MHz Analogue Oscilloscope

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TECHNICAL SPECIFICATION

SEFRAM 5020

VERTICAL SYSTEM	Sensitivity/ Accuracy	5 mV/ Div. - 5 V/ Div. / $\pm 3\%$
		1 mV/ Div. - 2 mV/ Div. / $\pm 5\%$
	Bandwidth	DC (AC 10 Hz) - 20 MHz (-3 dB)
		DC (AC 10 Hz) - 10 MHz (-3 dB) at 1 - 2 mV/ Div.
	Rise time	17.5 ns (35 ns at 1 mV - 2 mV/ Div.)
	Input impedance	1 M Ω $\pm 2\%$ // approx. 25 pF
	Input coupling mode	AC, DC, GND
	Polarity	CH2 only
	Display mode	CH1, CH2, DUAL, ADD (ALT and CHOP automatic, CHOP lockable)
	CHOP Frequency	Approx. 250 kHz
HORIZONTAL SYSTEM	CH1 output signal	50 mV/Div. into 50 Ω
	Sweep time/ Accuracy	0.1 ms - 0.5 s/ Div. / $\pm 3\%$
		100 ns - 50 ms/Div. / $\pm 5\%$ (x10 MAG)
		10 ns - 50 ns/Div. / $\pm 8\%$ (x10 MAG)
	Expansion	x 10
TRIGGER	Modes	AUTO, NORM
	Trigger source	CH1, CH2, ALT, LINE, EXT
	Trigger coupling	AC, DC, HF REJ, TV
	Trigger slope	positive or negative
X-Y OPERATION	Sensitivity	5 mV - 5 V/ Div. $\pm 4\%$
	Bandwidth	DC - 1 MHz
	Phase difference	< 3° (DC - 50 kHz)
Z Axis	Input impedance	Approx. 5 k Ω
	Sensitivity	> 3 Vp-p
	Frequency response	DC - 5 MHz

GENERAL SPECIFICATION

SEFRAM 5020

Calibrator		1 kHz square wave, 2 Vp-p $\pm 2\%$
CRT	Screen	6 inch. rectangular, with internal graticule
		8 x 10 DIV (1 Div. = 10 mm)
	Accelerating voltage	2.2 kV
Power source		AC 100V/ 120V/ 220V/ 230V $\pm 10\%$, 50/60 Hz, Approx. 70 VA (max.)
Safety		IEC 1010, Cat. II, 300 v
Dimensions & Weight		310 x 150 x 455 mm; 8.2 kg
Warranty		2 years

SUPPLIED WITH

All SEFRAM 5020 oscilloscopes are supplied with a power cord and a user's manual

OPTIONAL ACCESSORIES

- GE 1521 - Probe for oscilloscope (1/1, 1/10, 150 MHz)
- GE 3121 - Probe for oscilloscope (1/100, 200 MHz, 2 kv)
- GE 8100 - Differential probe
- SO 401 - BNC m./ 2 x BNC f. adaptor
- SO 402 - Isolated BNC m./ 2 x banana plugs adaptor
- SO 405 - 50 Ω , 2 W Load
- SO 410 - BNC/BNC Cable (1m, black)

GE 8100 - DIFFERENTIAL PROBE

Bandwidth	30 MHz
Voltage common mode	700 V
Attenuation	x 20, x 200
Accuracy	$\pm 3\%$
Rise time	12 ns
Auto-power off	10 min
Power requirements	9V battery (battery life .20h)
Dimensions	157 x 50 x 26 mm
Cable length	50 cm
Safety	IEC 1010, Cat III
Warranty	1 year

To discover the complete range of accessories, contact us and ask for the ELDITEST catalog.

Specifications subject to change without notice- FT502000A/97

Sefram



SEFRAM
32, rue Edouard Martel
BP 55
F- 42009- St Etienne
Tel. +33 (0) 4.77 59.01 01
Fax. +33 (0) 4.77 57 23 23

METRIX Electronics plc
Mountfield House
659, High Street
Kingswinford
West Midlands - DY6 8AL
Tel. +44 (0) 1384 402731
Fax. +44 (0) 1384 402732

For assistance and ordering