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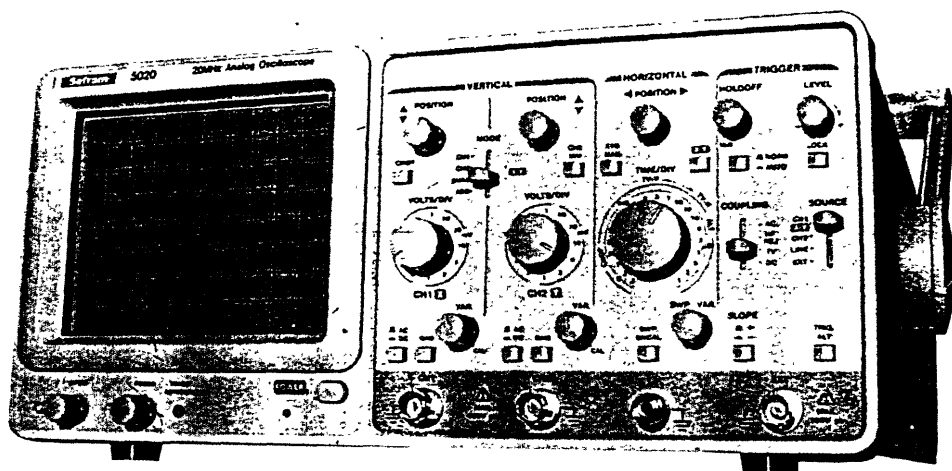
SEFRAM 5020
20 MHz Analogue Oscilloscope

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

Sefram

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



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