



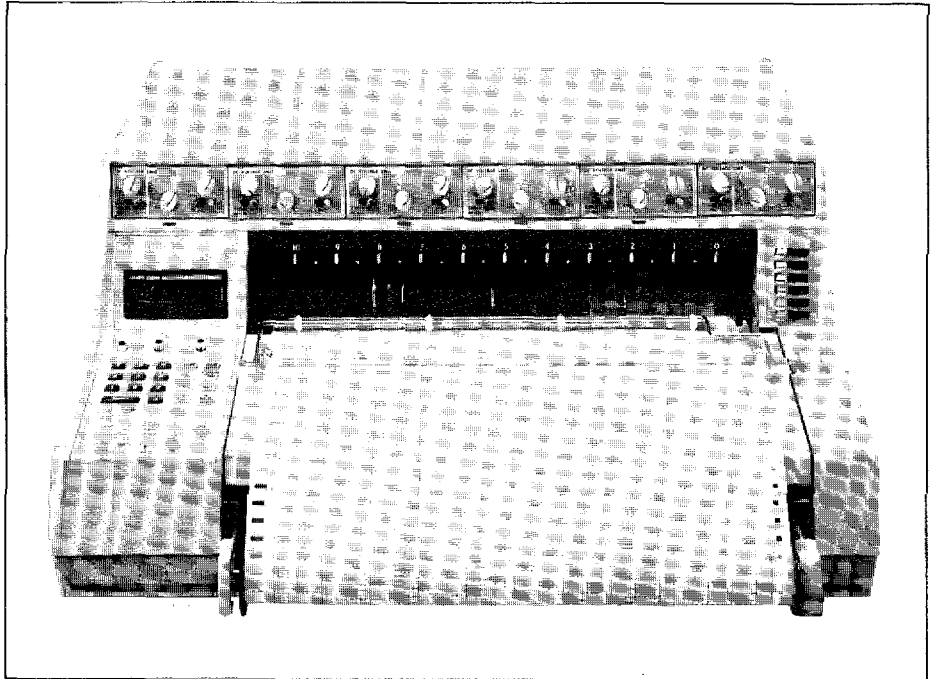
Advanced Test Equipment Rentals

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Gould SC270 Strip Chart Recorder

FEATURES

- Choose from 4- or 6-channel flat-bed models
- Programmable recorder functions
- Multiple plug-in modules for voltage, current and temperature measurements
- 0.3-sec. response time
- Complete color coding of pen lifts, pen colors, channels and pre-amplifiers simplifies operation
- Offset compensation between channels
- Auto, Manual and Preset recording modes
- Digital measurement display



Gould's feature-packed SC270 is ideally suited to recording various multi-parameter measurements in laboratory and general industrial applications. Available in 4- and 6-channel, bench-top models with 10-inch chart widths, the SC270's standard features include function programming, built-in pen offset compensation, automatic chart take-up and electric pen-lift.

Plug-in single and multi-range input pre-amplifiers are available for measuring dc voltage (with or without bias) from 1mV to 200V full scale; current from 1 μ A to 500mA full scale, and temperature through a variety of thermocouple modules.

With a range of front panel selectable chart speeds from 0.1 cm/hr up to 100 cm/min, the SC270's sophisticated flexibility includes Auto, Manual and Preset recording modes. The Auto mode per-

mits programming of functions (multiple chart speeds, pen up/down, variable operation intervals, limits, scaling, etc.) for extended recording cycles up to more than six days per step.

In the Manual mode, the user may easily operate the SC270 from the front panel, selecting from more than 2,000 available chart speeds. Also, the user can define up to six of the most-common recording chart speeds to minimize set-up time.

In the Preset mode, the SC270 is returned to a pre-defined, un-scaled recorder-check condition. In all modes, chart speeds also can be synchronized to an external pulse train for specific applications.

The SC270's fast response of 0.3 sec. full scale and accuracy of $\pm 0.25\%$ ensures reliable recording of even highly

variable signals. These characteristics are further complemented by a standard pen offset compensation feature that fully synchronizes all channels, eliminating the time gap between channels normally found in lower-performance, multi-channel strip chart recorders.

Its programmability also permits the SC270 to add or subtract two channels and record the result on a third channel, providing even greater flexibility. Channels also may be scaled in user units, with the numeric value displayed on the built-in LED display. Further, signals may be displayed in overlapping and, for easier viewing, non-overlapping channels.



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Specifications

Number of Channels	4 and 6 channels
Event Markers	Superimposed on each channel
Channel Offset Compensation	Standard built-in pen offset
Recording System	Automatic zero balance dc servo
Trace Presentation	Servo-linear, with right hand zero
Response Time	<0.3 sec. 99% full scale
Recorder Non-Linearity	± 0.25%
Dead Band	± 0.10%
Writing Method	Disposable fiber-tipped pen, identical for all channels, 8 colors
Pen Lift	Standard all channel electric pen lift. Pens also may be manually operated.
Input Signal	Full range of single and multi-range plug-in amplifier modules for: <ul style="list-style-type: none"> • dc voltage, 1 mV to 200 V full scale • dc voltage with ± 400% bias, 1mV to 200 V full scale • dc current, 1μA to 500mA full scale* Thermocouple E, J, K, R, S, T, - 100° C <small>*Range depends on type selected</small>
Writing Chart Width	250 mm

Chart Drive System	Stepper motor, sprocket drive
Chart Speeds	From 0.1 cm/hr to 100 cm/min
Programmable Recorder Functions	Includes Auto, Manual and Preset. The Auto mode for programming of functions such as multiple chart speeds, variable operation intervals, pen up/down, limits and scaling. Two channels may be added or subtracted, and recorded on a third. Channels can be scaled in user units, with numeric value displayed on the built-in LED display. Signals may be displayed in overlapping and non-overlapping channels.
Chart Format	20-m roll or z-fold, rewind provided
Chart Take-up	Standard roll chart 20-m take-up
Operating Line Voltage	Selectable plug — 100, 115, 200, 220, 240 Vac within 10% at 50-60 Hz; optional dc-dc inverter (12Vdc)
Input Power	Max 140 VA (6-channel model)
Weight	4 channel: 38.5 pounds (17.5 kg) 6 channel: 42.0 pounds (19.1 kg)
External Dimensions	17.6 in (440 mm) W x 9.6 in (240 mm) H x 17.2 in (430 mm) D without additional options

Ordering Information

Standard Systems

Model numbers include three rolls paper, one set of pens, fuse, power cord, dust cover and operator/service manual.

Flat Bed Strip Chart Recorders

Description	Model Number
SC274, 4-channel recorder, event marker superimposed on each channel, electric pen lifts, roll chart take-up, pen offset synchronizer	274-111122-1
SC276, 6-channel recorder, event marker superimposed on each channel, electric pen lifts, roll chart take-up, pen offset synchronizer	276-111122-1

Multi-Range Pre-amplifiers (select one per channel)

Description	Model Number
DC Voltage	
1 V and 10 V full scale (non-isolated), 2 ranges	210-110001-1
100 mV to 500 mV, 1 to 10 V full scale (non-isolated), 7 ranges	210-110002-1
1 mV to 500 mV, 1 V to 200 V full scale, 17 ranges (isolated 200 V max input)	210-110003-1
DC Voltage with ± 400% Bias	
1 mV to 500 mV, 1 V to 200 V full scale, 17 ranges (isolated 200 V max input)	210-120003-1
DC Current	
1 μA to 50 μA, 6 ranges	210-210006-1
0.1 mA to 5 mA, 6 ranges	210-210007-1
10 mA to 500 mA, 6 ranges	210-210008-1
Thermocouples	
Type E, 3 ranges, 0° to 800°C	210-310031-1
Type J, 3 ranges, 0° to 800°C	210-310032-1
Type K, 3 ranges, 0° to 1200°C	210-310033-1
Type R, 3 ranges, 0° to 1600°C	210-310034-1
Type S, 3 ranges, 0° to 1600°C	210-310035-1
Type T, 3 ranges, - 100° to + 400°C	210-310036-1
Blank Module	210-510000-1

Accessories

Description	Part Number
Line Fuse (1A) (200-240 V operation)	116198-10
Line Fuse (2A) (100-115 V operation)	116198-12
Power Cord	291067
Dust Cover	*
Remote Connector	*
Remote Control Module	*
Operator/Service Manual	270-80111122-1
Chart Take-Up Kit	*

* Contact factory

Chart Paper

Description	Part Number
Roll, metric grid, 283 mm wide, approx. 20 m long (250 mm usable width)	297701
Z-fold, metric grid, 283 mm wide, approx. 20.4 m long, 136 pages (250 mm usable width)	297702

Recording Pens

Description	Part Number
Red	297703-1
Green	297703-2
Brown	297703-3
Light Green	297703-4
Blue	297703-5
Orange	297703-6

Event Marker Pen

Description	Part Number
Red	297704-1

Specifications subject to change without notice.