

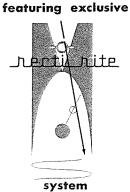


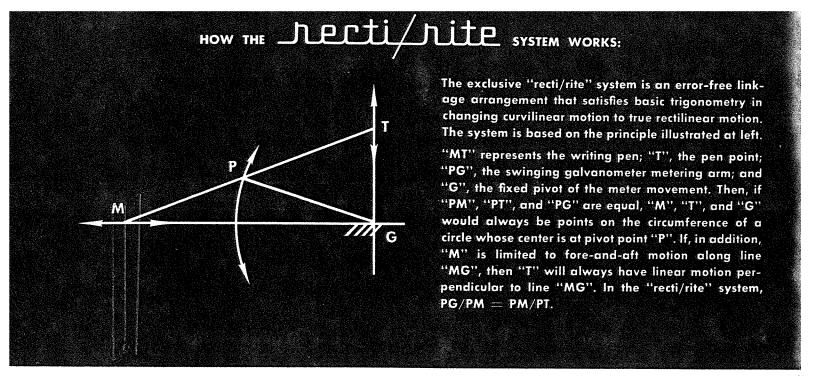
# TEXAS INSTRUMENTS

INCORPORATED

INDUSTRIAL INSTRUMENTATION DIVISION

3609 BUFFALO SPEEDWAY . HOUSTON, TEXAS . CABLE: HOULAB





### rectilinearity for quicker, easier data reduction

The "recti/riter" is the *first* galvanometer-actuated recorder with true straight line motion. Its exclusive "recti/rite" system inscribes a signal in its true shape on a rectilinear chart—in a form that can be measured with a ruler. No time-consuming interpolations or computations...no apparent "negative" time or other curvilinear illusion. Recorded wave forms are

directly comparable to those seen on oscilloscopes or those plotted from formulae.

The unique "recti/rite" system is simple and troublefree. Each moving part of this low friction system is counter-balanced and pivots have jeweled bearings ... to assure uniform writing pressure over full  $4\frac{1}{2}$ -inch deflection.

## thoroughly practical design

#### for maximum operating time and minimum 'down' time

The refinements and conveniences of the "recti/riter" save valuable operator time in set-up, operation, and maintenance.

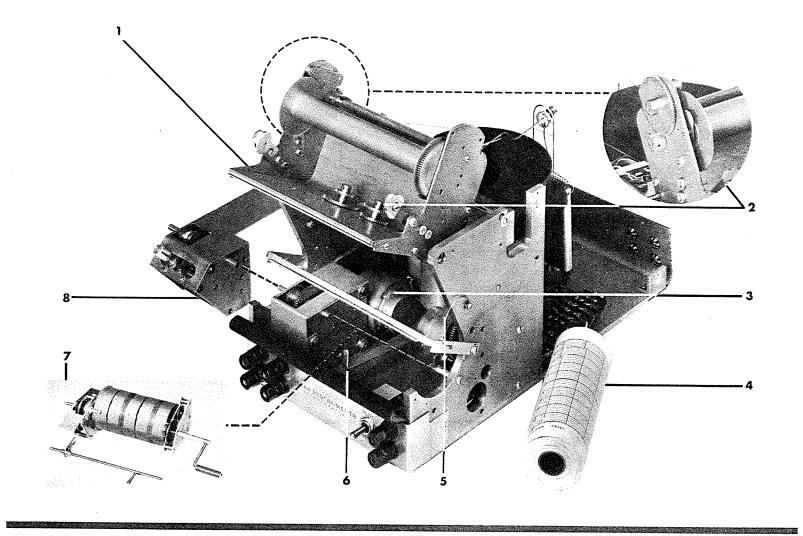
#### front access

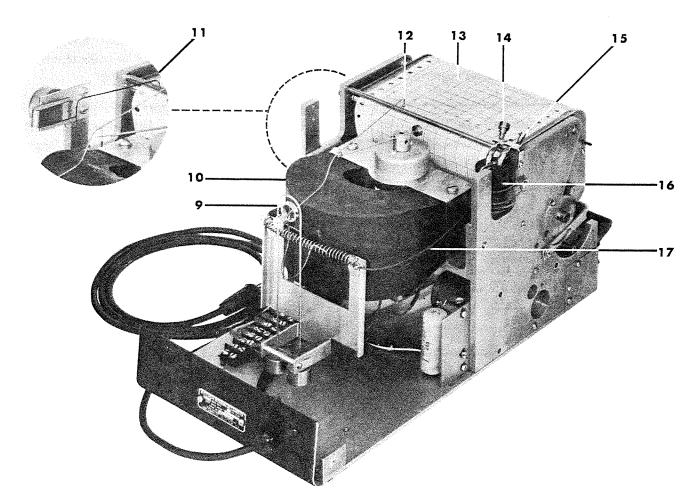
Without disassembly the operator can — from the front of the instrument — flip the power switch... make connections to the signal terminals... observe the chart from a standing or seated position... slide the transparent access door out of sight and out of the way... check the visible ink supply level... fill the closed inking system... adjust the zero position of

the writing pen...change chart rolls...select any of 10 chart speeds...pull out the chart for examination and let the automatic take-up rewind it... and make chart notations on the "writing desk" area of the chart carriage.

#### structural simplicity

This compact, portable instrument consists of a onepiece dust cover over a frame on which are mounted interchangeable unit sub-assemblies. Removal of the dust cover makes every working part completely accessible—and removable—without further disassembly.





# interior design features

T CONTRACTOR CONTRACTO	fast chart reloading — No disassembly. With door open, chart carriage swings out into load position.	5 automatic take-up — Rewinds chart after pull-out for inspection — while unit is operating.
2	chart speed change gears — Extra sets of gears on standard models allow for 10 chart speeds.	6 front-located zero adjust — Accessible when door is open, yet out of the way of accidental movement.
3	chart drive — AC drive shown. DC and spring-drives are also available. Flatted shafts connect to external drive.	7 spring-drive — Optional spring-drive mechanism allows recorder operation independent of electrical power supply.
4	rectilinear chart — Standard transparent 6-inch rectilinear chart has $4\frac{1}{2}$ inches active width.	8 chart speed change transmission — Optional "gear shift" speed changer for instant selection of any of five basic speeds during operation.
9	exclusive 'recti/rite' system — Shock resistant linkage straightens the arc described by the galvanometer metering arm.	13 'writing desk' chart table — Exclusive TI design permits operator to make chart notations while unit is recording.
9	resistant linkage straightens the arc de-	design permits operator to make chart nota-
10	resistant linkage straightens the arc described by the galvanometer metering arm.  large alnico v magnet — Gives high output torque and permanent stability to the	design permits operator to make chart notations while unit is recording.  14 easy ink filling — Performed at front of instrument with access door open. No dis-

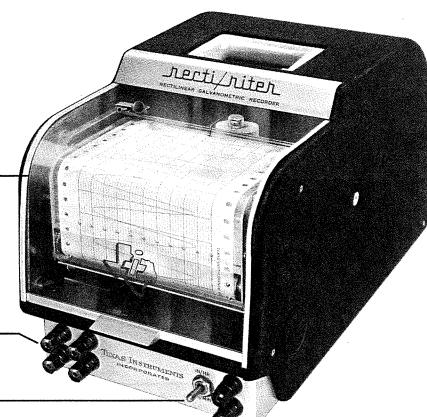
17 dependable ink flow — Carefully balanced flow forces produce a constant thickness of ink that dries rapidly without running.

# exterior design features

DISAPPEARING ACCESS DOOR
— all routine operations can
be performed without disassembly after sliding up the
transparent access door.

FRONT SIGNAL TERMINALS — three sets of terminals are front-mounted for easy access.

3-POSITION SWITCH (OR LEVER)
— increases five basic speeds to ten by selecting rates in either inches per minute or inches per hour.



modern functional design

The \_necti/niten was styled by Painter, Teague and Petertil, nationally known industrial design firm. The instrument is finished with a charcoal brown wrinkle surface and satin aluminum trim. Here design follows function to give you a recorder as attractive as it is useful.

LIFT FLAP TO SEE INTERIOR DESIGN FEATURES E

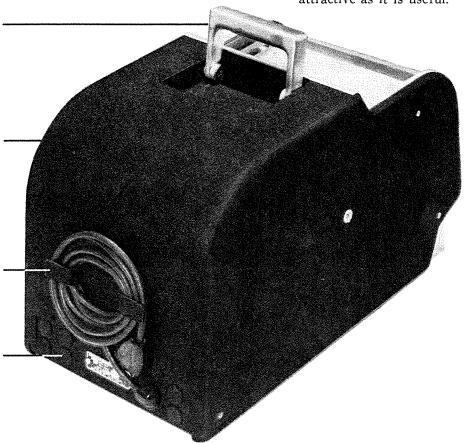
INTEGRAL CARRYING HANDLE—positioned for optimum balance...hinged to fold flush when not in use.

ONE-PIECE DUST COVER easily removed dust cover allows front access when installed . . . complete access when removed.

CORD STORAGE BRACKET — provides convenient storage for the six-foot, heavy duty power cord.

REAR TERMINAL PROVISIONS

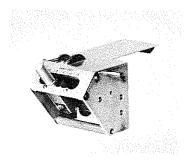
— six rear knockouts allow for optional rear-mounted signal terminals.



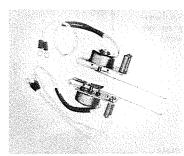
# recti/riter

#### accessories

"Gear shift" chart speed changer transmission, right-hand or left-hand timing marker pens and actuators, rear-set terminals.



"gear shift" chart speed changer transmission internal lighting, shock mounts, panel mounting fittings, paper in many calibrations, ink in different colors, and others.



timing marker pens and actuators

## specifications

recorder general
Weight (Electric Drive) 27 lt
Weight (Spring Drive) 30 lt
Dimensions L, 15 in.; W, 81/4 in.; H, 91/4 in
Volume
Bench Area
*
recorder drives
AC Model 115 volts, 60 cps, 8 watts
(220 volts and 50 cps available)
DC Model 6, 12 or 28 volts, 10 watts
Spring-Drive Model 4 hr to 10 days one winding
(depending on chart speed)
External 1/4-in. flatted drive shaft provided
recording chart
Chart Size Standard 6-in, translucent
rectilinear
Chart Length 100 ft
Chart Speeds 0.75, 1.5, 3, 6, and 12 in./min
or in./hr
Chart Calibration Standard types available
Chart Cambration Standard types available

meter movement				
Input Current 1 ma full scale (4½ in.) deflection				
(Additional current ranges available on request)				
Input Resistance 1,500 ohms				
Source Resistance (for critical damping)				
Undamped Natural Frequency 2 cps				
Pen Speed 0.25 sec full scale (4½ in.) deflection (under critical damping)				
Sensitivity 0.45 in./100 microamperes				
Accuracy (dc) $\pm$ 1% of full (4½ in.) scale				
timing markers				
Input Voltage (Volts) 6 12 28 DC, 115/60 cps				



# HOW TO ORDER THE TI

	Single		Lecti/	) ite	7	Januar	January 1, 1958
	With	out "Gear Shift"	Without "Gear Shift" Chart Speed Change Transmission	ge Transmi	ıssion		and the second s
With AC Drive	-+  	M	With DC Drive	-	With Sp	With Spring Drive	
Model Number Marker Pens	Price	Model Number	Marker Pens	List Price	Model Number Marker Pens	arker Pens	List Price
RRMA-X-X None RRMA-X-1* 1 Marker pen RRMA-X-2* 2 Marker pens	\$ 465.00 495.00 525.00	RRMD - X - X RRMD - X - 1* RRMD - X - 2*	None 1 Marker pen 2 Marker pens	\$ 540.00 570.00 600.00	RRMS - X - X No RRMS - X - 1* 1 N RRMS - X - 2* 2 N	None 1 Marker pen 2 Marker pens	\$ 550.00 580.00 610.00

ssion	Note: Transmission not provided with Spring Drive				
Change Transmi		ns Price	\$ 615.00 en 645.00 ens 675.00	3 Volt when	
hart Speed (	With DC Drive	Number Marker Pens	None 1 Marker pen 2 Marker pens	Specify 6, 12, or 28 Volt when ordering DC Drive	
With "Gear Shift" Chart Speed Change Transmission	Δ'	Model Number	RRMD - T - X RRMD - T - 1* RRMD - T - 2*	Note: Specifor	
Wit	+3:1	Price	\$ 540.00 570.00 600.00		
	With AC Drive	Marker Pens	None 1 Marker pen 2 Marker pens		
	W	Model Number Marker Pens	RRMA - T - X RRMA - T - 1* RRMA - T - 2*		

\* When ordering Marker Pens Specify 6, 12 or 28 Volt or 115 Volt 60 cycle actuators

	Chart Paper for Standard Ranges on Separate Schedule.		
	Chart Drive Motors  110 Volt, 50 cycle \$ 6.80  220 Volt, 50 cycle 6.80  220 Volt. 60 cycle 6.80		Note: All prices listed are subject to change without notice.
List Price	\$ 49.00 59.00 39.00 3.85	7	Rear Set ed, specify rder.
Accessories	Single Panel Mount Double Panel Mount Shock Mount Assembly Ink (Red or Green)-pint Extra Instruction Manuals	Line Voltage Monitor Rear Set Terminals	* Front Set Terminals standard. Rear Set Terminals available if required, specify "R" after model number of recorder.
Model	P-1 P-2 S-1R	VM *	*Front { Termir ''R'' aft