

Recorders

Graphic Range Y/t Recorders

A range of high quality, value for money Y/t recorders which are simple to use and provide versatile, reliable operation for industrial, medical and educational applications.

- ◆ Lightweight but rugged construction
- ◆ Portable
- ◆ 12V d.c. or mains operation
- ◆ Use 250mm graph width paper

The recorders use Pulse Width Modulated (PWM) servodrive for power efficiency and linear conductive tracks for outstanding repeatability. By the careful use of a sealed power supply, line power is removed from the recorder chassis making the range safe for educational and medical applications. Additionally, the rugged construction permits industrial and field applications from the same unit.

Recorder Y/t, Graphic 450X

Single channel. As described. 5 sensitivities 1mV to 10V. Maximum input 150V. Accuracy $\pm 0.3\%$. Response time less than 0.5 sec. Span control for intermediate sensitivities to 150V, 11 chart speeds 0.1mm/min to 10mm/sec. Mechanical pen lift. With pen, one roll of chart paper, mains lead and transformer for 240V 50Hz single phase supplies. With permanently fitted preamplifier.

RD250-10 G450X, single channel

Recorder Y/t, Graphic 1000

Single channel. As described. 5 sensitivities 1mV to 10V. Accuracy $\pm 0.25\%$. Response time less than 0.5 sec. Span control for intermediate sensitivities to 150V. 11 chart speeds, 0.1mm/min to 10mm/sec. Electric pen lift, stop/start and event marker. With pen, one roll of chart paper, mains lead and transformer for 240V 50Hz single phase supplies. Fitted with one interchangeable preamplifier.

RD250-50 G1000, single channel

Recorder Y/t, Graphic 1002

Two channel. As described. 5 sensitivities per channel 1mV to 10V. Accuracy $\pm 0.25\%$. Response time less than 0.5 sec. Span controls for intermediate sensitivities to 150V. 11 chart speeds, 0.1mm/min to 10mm/sec. Electric pen lifts, stop/start and independent event markers. With two pens, one roll of chart paper, mains lead and transformer for 240V 50Hz single phase supplies. Fitted with two interchangeable preamplifiers.

RD250-55 G1002, two channel

Spares

RD263-10 Pens, black. For RD250-10 only, pack of 5

RD263-16 Pens, black. For RD250-50/-55 models, pack of 5

RD263-18 Pens, red. For RD250-55 only, pack of 5

Chart rolls

Linear scale. 250mm graph width. Y axis marked at 0.5% intervals (5% and 10% intervals highlighted). Time (t) axis marked at 1mm intervals (cm intervals highlighted). Markings are in non reproducible blue. Standard DIN perforations. Roll length 35 metres, supplied in a pack of 10 rolls

RD263-25 Chart rolls

Specification

Catalogue No.	RD250-10	RD250-50	RD250-55
Model	Graphic 450X	Graphic1000	Graphic 1002
Preamplifier	Standard — all models		
Chart width	250mm — all models		
Number of channels	1	1	2
Input Sensitivity (full scale deflection –250mm)	1,10, 100mV, 1,10V 5 precalibrated — all models		
Filter	50Hz switchable filter — all models		
Span vernier	x 1 to x10 within each range		
Infinite resolution	Max input 150V — all models		
Input Calibration	Precision internal voltage reference source enables vernier calibration to be checked precisely at a touch of a switch — all models		
Repeatability	±0.1% — all models		
Accuracy at f.s.d	±0.3%	±0.25% — all other models	
Response time (typical)	<0.5 seconds — all models		
Overshoot	<1mm on 200mm square wave — all models		
Common mode rejection ratio	100dB min at d.c. 90dB at 50/60Hz — all models		
Dead band (max)	0.5mm — all models		
Zero setting	Left or right hand zero-switch selectable — all models		
Zero check	Disconnects input so pen position can be set for true zero — all models		
“Back Off”	100% with Span vernier — all models		
Input Impedance	1M — all models		
Input mode	Fully floating — all models		
Input Terminals	4mm — all models		
Typical writing speed	500mm/second — all models		
Circuit description	Pulse width modulated d.c. servo — all models		
Electrically controlled chart speeds	10, 5, 2, 1, 0.5mm/second 10, 5, 2, 1, 0.2, 0.1mm/minute in 0.05mm steps — all models		
Chart advance	10mm/second switch — all models		
Chart drive	Forward, stop, reverse — all models		
Event marker	5mm mark in negative direction — all models		
Pen lift	Mechanical	Electric control for each pen — all other models	
External control (via 3.5mm jack socket)	Event marker; pen lift; chart start/stop; chart stepper motor control — all models		
Overall H x W x D	105 x 375 x 245mm — all models		



RD250 Series