

BROOMALL INDUSTRIES

DIGITIZING SYSTEMS

Model OSCAR-K



DESCRIPTION

The OSCAR K is a low cost strip chart reading and digitizing system designed for the smaller laboratory or test facility whose work load does not demand the requirements or flexibility of the more expensive reading/digitizing systems. The OSCAR K measures either single or multiple trace amplitudes, applies a linear or non-linear calibration, and converts strip chart analog data to a digital form for output to keypunch, typewriter, or punched paper tape. The simplified operation of the OSCAR K permits a more accurate reduction of data in the least elapsed time and at a reduced total cost.

The digitizing unit and readout electronics are integrated into a single console which insures maximum convenience and operating simplicity. The operating controls and indicators are immediately accessible to the seated operator. The record viewing area has been positioned and lighted for maximum operator comfort.

The reading head travels on a traverse bar just below the viewing screen and carries the reference line overlay and the measuring template directly on the record to be measured.

A unique leveling mechanism aligns the reading head to the record, eliminating the problems normally encountered in aligning the record to the instrument.

The reading head contains the readout pushbutton, sign selector switch and control knobs for ease of operation.

FEATURING

- Multi-channel, non-linear calibrations automatically correct readout to units of the function recorded, permitting custom calibration for each data reading problem.
- Time-line counter with multiplier to keep track of time and record it with the digital information.
- Preset channel counter to indicate the next channel to be read and advance the time-line counter.
- Data switches that can be dialed to enter date, test, and project number, etc.
- Patchpanel programming providing the most suitable output format for each problem.
- Keyboard input using a serial keyboard to type and punch additional information manually.

OSCAR K DIGITIZING SYSTEM

viewing screen	Backlighted ground glass plate, 13 inches x 25 inches.	channel counter	Inline, two-decade, Nixie tube light bank.
reading area	12 inches x 16 inches. Accepts paper in rolls up to 5 inches in diameter, up to 12 inches in width.	time-line counter	Inline, four-decade, Nixie tube light bank.
motorized paper transport	Bi-directional, variable speed paper advance for roll type records.	data entry	Six 12-position rotary switches. Switch positions: 0-9, Minus and Omit.
paper hold down	Magnetic hold down on either side of the viewing screen.	fixed data entry	Provided by the Program Patch-panel.
calibration origin	Can be positioned anywhere on the reading area.	readout programming	Format of the readout sequence is controlled by a program patchpanel to adapt the readout sequence to each problem.
calibration sensitivity	Automatic application of multiple overlapping calibrations, either linear or non-linear in any combination, to the trace amplitudes through the use of a single template. The instrument can read a succession of amplitude traces and automatically apply a different calibration to each trace.	output control	Switch selects one of four modes: typer, typerpunch, punch and set-up.
mixed traces (inverted values)	Traces with inverted values (positive sign goes downward across the face of the record) can be read without change in template or machine adjustment.	system design	Integrated single console.
instrument accuracy	Plus or minus 0.1% of full scale of each trace.	construction	Vinyl-covered sheet steel.
digital range	Plus or minus 999 (manual polarity control).	power requirements	105/125 volts, 60 cycles A.C., 500 watts, 8 amps.
channel counter capacity	99 channels with the ability to reset to 01 and advance the time-line counter at the end of any preset channel counting cycle.	dimensions	
time-line counter capacity	Four decade with one digit multiplier which allows the counter to advance in steps of 1, 2, 3, 4, 5, 6, 7, 8, or 9 in any of the four decades.	width	44 inches
keyboard data entry	Serial keyboard. Keys are provided for the numbers Zero through Nine, Decimal Point, Minus Sign, Space, Tabulation and Carriage Return.	depth	26 inches
numerical display digitizer	Inline, three decade, Nixie tube light bank and sign.	height	48 inches
		weight	250 pounds uncrated; 400 pounds crated
		accessories	Electrotyper Model D with 16-inch, 19-inch carriage. Accessory stand (for use with Electrotypers, tape perforators, etc.).
		compatible outputs	To Broomall Industries' Electrotyper Model D. To IBM Keypunch 024/026/029.
		optional output	Paper tape punch and control.
WARRANTY			
Purchase of the Oscar K includes installation by a factory trained field engineer and a 90 day warranty from date of installation.			