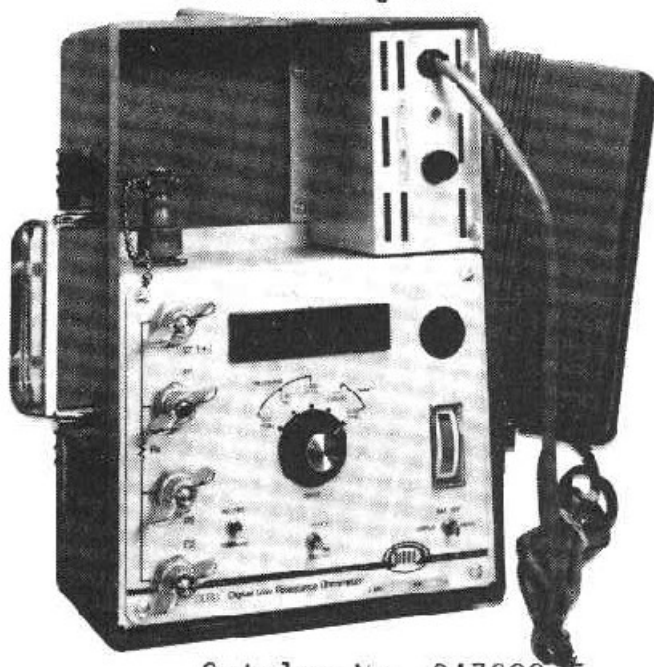


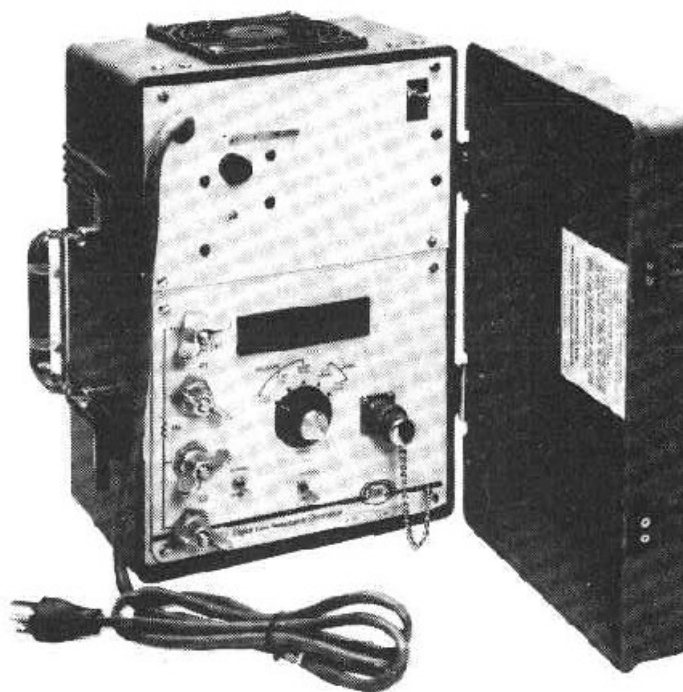
Catalog No. 247000
complete
with Charger.



Catalog No. 247001



Catalog No. 247000-5
with built-in
Battery Charger.



Catalog No. 247010-4
with Line-Operated
Power Supply.

Figure 3a: Various DLRO Unit Combinations

Section D

SPECIFICATIONS

Ranges, Resolution, Accuracy and Test Current

RANGE	TEST CURRENT AMPERES ($\pm 20\%$)	RESOLUTION	LIMIT OF ERROR	
			1 year, 15-35°C	1 year, 0-50°C
0.000 - 5.999m Ω	10	1 $\mu\Omega$	1/4% Rdg + 1 lsd*	1/2% Rdg + 1 lsd*
00.00 - 59.99m Ω	1	10 $\mu\Omega$	"	"
000.0 - 599.9m Ω	0.1	100 $\mu\Omega$	"	"
0.000 - 5.999 Ω	0.01	1m Ω	"	"
00.00 - 59.99 Ω	0.001	10m Ω	"	"

* (Least Significant Digit)

Zero Offset: Typically 0-1 count over 15-35°C. Full accuracy can be realized by using the Forward-Reverse switch to average the readings. An internal zero adjustment is also provided.

On-Off Control: Toggle switch energizes all circuits. Has momentary and lock positions.

Response Time: (after On-Off switch is closed): 2 seconds to final reading.

Interference Effects: Error in item under test caused by line-frequency current of 0.1X test current: ± 1 lsd

Error caused by 5-gauss line-frequency magnetic field: ± 2 lsd

Error caused by connection to ground or voltage to ground (assuming battery operation): None

Input Protection: One volt peak may be applied between any two of the Rx terminals.

Effect of Inductive Test Item: None except time constant delay. No damage caused by inductive kick, but see precautions in Section H.

Temperature Range: Operating; 0-50°C (line supply, 0-40°C);
Storage: -40°C to + 60°C

Section D

SPECIFICATIONS (Cont'd.)

Display: Red LED, 4 digits 0.5" high, decimal point, and negative (-) sign. Upper right hand segments of digits flash on overrange input.

Calibration Adjustments: Internal zero and span adjustments for all ranges.

Test Lead Resistance Requirements:

Potential Leads (P1, P2): No limitations.

Current Leads (C1, C2): each lead 20 milliohms nominal. Deviations affect test current but do not affect accuracy unless they are large compared to the measuring range.

Power Supply, Rechargeable System:

Battery Complement (internal batteries, nickel cadmium type):

Display circuit, 4 cells size "D" (Eveready CH4 or Gould 4.0 SCB or G.E. #GCW 3.5 SB.)

Measuring circuit, 2 cells, size "F". (Gould 7.0 SCB).

Battery Condition Meter:

Shows state of charge of batteries. Switch selects either battery for test.

Battery Charger:

Separate charger unit plugs into receptacle on measuring unit. Full charge in 14 hours. Charging may be continued while instrument is operating. Fused, with UL listed 3-wire line cord and plug. Power requirements, 0.22 amps at 115 volts, 50/60 Hz; or 0.165 amps at 230 volts, 50/60 Hz. Fuse ratings: 115V - 0.2A Slow Blow
230V - 0.1A Slow Blow

Section D

SPECIFICATIONS (Cont'd.)

Battery Capacity:

RANGE	CONTINUOUS OPERATING TIME BETWEEN CHARGES		CONTINUOUS OPERATING TIME WHILE ON CHARGE	
	MEASURING CIRCUIT BATTERY	DISPLAY BATTERY	MEASURING CIRCUIT BATTERY	DISPLAY BATTERY
6 m Ω	1 Hour	15 Hours	1 Hour	No Limit
60 m Ω	10 Hours	"	No Limit	"
600 m Ω	100 Hours	"	"	"
6 Ω	1000 Hours	"	"	"
60 Ω	1000 hours	"	"	"

Battery Life:

Approximately 300 full charge-discharge cycles.

Safety:

Meets all applicable requirements of ANSI-C39.5-1974. Highest voltage existing (except in charger primary and line supply primary) is 6 volts.

Case:

The measuring unit and charger have rugged molded case with handles and removable hinged lids. The measuring unit lid can be used as a sun shield. The charger case has similar construction with additional space for storing test leads.

Test Lead Terminals: 5/16" diameter studs with wing nuts for spade or ring lugs.

Section D

SPECIFICATIONS (Cont'd.)

Dimensions and Weights:

Cat. No.	Weight	Dimensions
247000	11 lbs. (5.01 kg)	8 7/8"W x 8 1/8"D x 8 1/8"H (22.4 x 20.6 x 20.6 cm) (Instrument)
247000-47		8 1/8"W x 8 1/8"D x 7 3/8"H (22.4 x 20.6 x 18.8 cm) (Charger)
247000-5	13 1/2 lbs. (6.1 kg)	13 1/2"W x 9 1/2"D x 7 1/2"H (34 x 24 x 19 cm)
247010-4	16 3/4 lbs. (7.6 kg)	"
247120	20 1/2 lbs. (9.3 kg)	"
247001	12.1 lbs. (5.5 kg)	12"W x 9 5/8"D x 6 3/8"H (30 x 24.5 x 16.2 cm)
247002	12.2 lbs. (5.5 kg)	"

Section D

SPECIFICATIONS (Continued)

Catalog Numbers and Unit Combinations for 10-Ampere Systems

CATALOG NUMBER	DESCRIPTION
247000	Instrument with Internal Rechargeable Batteries and separate 115V 50/60 Hz Charger Unit. Range: 0 to 60 Ohms in 5 ranges, 0 to 5.999 Milliohms lowest range (Note 1).
247000-3	Same as Cat. No. 247000 except with 100A adapter plug.
247000-47	Same as Cat. No. 247000 except with 230V-50/60 Hz charger
247000-3-47	Same as Cat. No. 247000-47 except with 100A adapter plug.
247000-5	Same as Cat. No. 247000-3 except with built-in battery charger.
247001	Same as Cat. No. 247000 except in single case.
247002	Same as Cat. No. 247001 except with an extra 600 $\mu\Omega$ range.
247010-4	Same as Cat. No. 247000-5 except with built-in line-operated power supply.
247120	100 Ampere line-operated power supply; may be used with Cat. Nos. 247000-3, 247000-5 or 247010-4.

NOTES:

Note 1: Leads not included. (See Bulletin 24-1 for recommended test leads.)

See Page 36 for information concerning 100-Ampere systems.