



No. F4468



No. F4469



No. F4470

F4468. **GALVANOMETERS, Portable Pointer Type, L. & N., with Vertical Scale.** The galvanometers listed under this number are identical in electrical characteristics with No. F4465 galvanometers. The distinguishing feature is the fact that in the instruments listed below the scale is vertical so that the pointer may be viewed from a position in front of the instrument. These galvanometers are particularly convenient in setups in which the instrument is necessarily placed at about the level of the eye of the operator. As in the case of No. F4465 the coil system is a separate unit which is removable from the molded Bakelite case.

No.	A	C	D
Current per scale division.....	5 μ A	1 μ A	0.5 μ A
Period, seconds.....	3	3	3
Coil resistance, ohms.....	20	250	1000
External damping resistance, ohms.....	50	950	2400
Each	\$16.00	16.00	16.00

F4469. **GALVANOMETER, Portable, Lamp and Scale Type, L. & N.** The sensitiveness of this type of galvanometer falls between that of the portable pointer type and the reflecting type for which separate reading device must be used. The coil unit with attached mirror is mounted between springs by means of phosphor bronze suspensions and the coil unit is removable from the instrument, and interchangeable in all galvanometers of this number. A 2-inch straight scale is mounted in the end of the case, 25 mm divisions both ways from central zero being provided. The light source is a 4 volt .5 ampere straight filament lamp.

These instruments are recommended where limited space is available or where greatest convenience in a reasonably sensitive indicating instrument is sought. For replacement lamps see Catalog No. F4553. To operate the lamp on a lighting circuit, use an F4554 Resistance Unit in the lamp circuit.

No.	A	B	C
Current per scale division.....	.05 μ A	1.25 μ A	.025 μ A
Period, seconds.....	3	3	3
Coil resistance.....	300	20	1000
External damping resistance.....	open	80	open
Each	circuit 40.00	40.00	circuit 40.00

F4470. **GALVANOMETER, Portable Pointer Type, L. & N. High Sensitivity, with 45° Scale.** For a pointer galvanometer this model has exceptional sensitivity. The 45° scale is a new feature which results in ease of reading from any angle between vertical and horizontal from which the instrument may be viewed. A standardized interchangeable type of system is used, the parts of which are assembled in a Bakelite molded case, with zero adjusting head, metal scale and unbreakable window. The coil is held between taut suspensions; hence no levelling is required. The permanent magnet is secured in a polished hardwood case on which the movable system unit is mounted. This instrument is about four times as sensitive as the pointer galvanometers having the same coil resistance listed under Nos. F4465 and F4468. Dimensions, 3 3/4 x 3 5/8 x 6 3/4 inches; weight, 4 pounds.

No.	A	B	C	D
Current per mm.....	2 μ A	1 μ A	0.25 μ A	0.12 μ A
Period, sec.....	2.5	3	3	3.5
Ext. critical damping res. ohms.....	20	110	1800	10,000
Coil res. ohms.....	12	20	250	1000
Suitable for	thermocouple	general	general	H-ion
Each	25.00	25.00	25.00	25.00

4620. **GALVANOMETER, Weston Model 440, see page 361.**