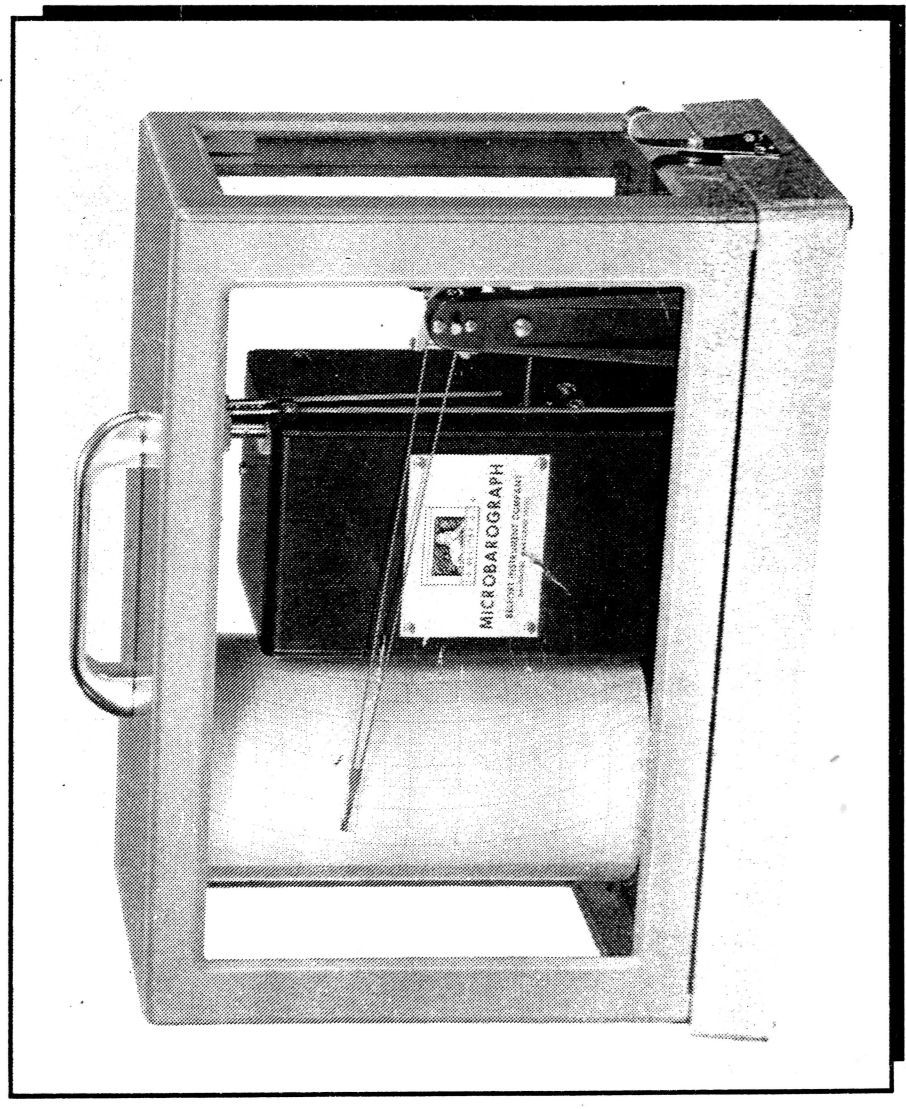


or 7-day rotation, the Compact is 7-day only. Complete with charts, felt pen, instructions. 2-year warranty.

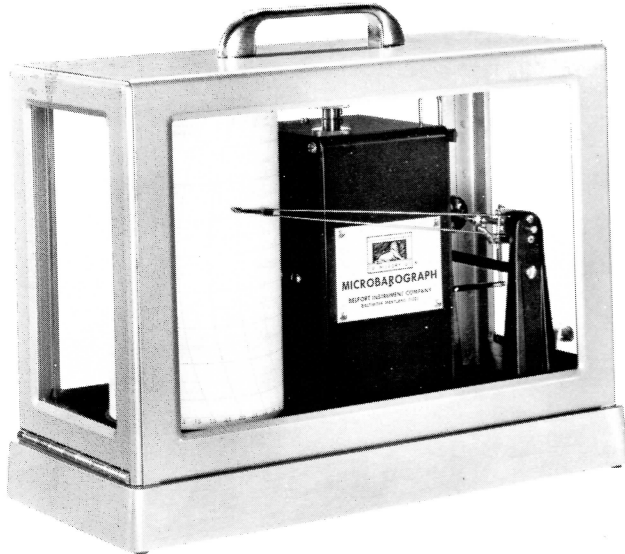
Top Performing Microbarograph



For the greatest accuracy and sensitivity to even tiny pressure changes, select the Belfort #5-800A Microbarograph. The expanded scale of its tall chart moves the pen 2.5" for each 1" of pressure change, giving superb resolution. Heavy-duty metal case with hinged top is 15"L x 7"W x 9 1/2"H. Choice of battery-powered or key-wound chart drive. Chart range: 28.50" to 31.00', 7-day. The best barograph we offer.

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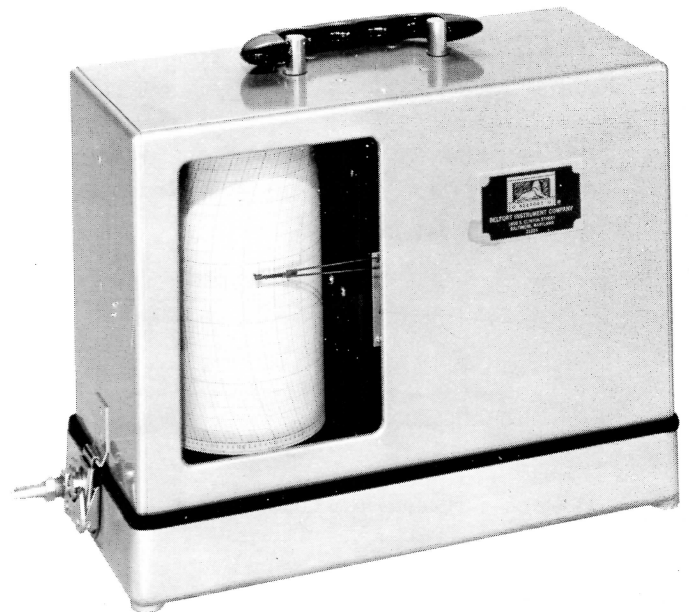


No. 5-800A

The Belfort, vertical drum type, microbarograph furnishes an accurate record of barometric pressure inked on a rectangular chart. Its magnified scale moves the pen 2.5 inches on the chart for every inch of mercury, through a range of 85 millibars.

Changes in the atmospheric pressure cause the opposed bellows assembly to either contract or expand. This movement is magnified through a linkage to trace the record. An important feature is the over-expansion protection for the bellows assembly. Stops are provided for the pen arm and the bellows. A unique link assembly is capable of absorbing any accidental motions imparted to the pen arm in any direction. All parts are corrosion resistant.

In the event of increasing high or decreasing low pressures, which might run the pen off the chart, the pen arm may be repositioned one inch of Hg. from the upper edge and one and one half inches of Hg. from the lower chart edge, by turning the adjustment knob on top of the element housing.



No. 5-800AM-1

A new friction-free damping device requires no dash pot, which ends the danger of spillage. The degree of damping may be adjusted. A balanced mechanism and flex strips have replaced a number of links and pivots used in the older type barographs. This new design no longer requires extreme care in selecting a vibration-free location for the instrument.

This microbarograph is fully temperature compensated by an adjustable bimetal assembly and is adjusted for optimum performance between 32°F to 100°F.

The instrument is so calibrated that charts can be substituted (eg. inch for millibar) without recalibration.

The microbarograph is available with either the 8 day hand wound chart drive PL-14252, or the battery powered chart drive PL-15605 (see bulletin #76-76).

5-800AM-1 Marine Microbarograph is equipped with anti-backlash spring wound chart drive and an airtight case. With its outlet tube connected to the exterior this eliminates the possibility of false readings on shipboard or other confined areas due to atmospheric pressure within the room.

BELFORT INSTRUMENT COMPANY
1600 SOUTH CLINTON STREET
BALTIMORE, MARYLAND 21224



Microbarographs

Bulletin 77-5

SPECIFICATIONS

BELFORT MICROBAROGRAPHS
MANUFACTURED TO U.S.W.B. SPECIFICATIONS

450.7221 (Revised July 1, 1959) & 450.7223

ACCURACY: ± 0.1 millibars over $2\frac{1}{2}$ " range

TEMPERATURE COEFFICIENT - 0.0179 mb per 1°C

CASE DIMENSIONS:

STANDARD

Length — 12-11/16 inches

Width — 7 inches

Height — 9-1/2 inches

MARINE

Length — 15-1/8 inches

Width — 7 inches

Height — 9-1/2 inches

WEIGHT: Net 12 lbs. Gross 25 lbs.

Net 18 lbs. Gross 28 lbs.

FINISH: Hammertone Gray Paint

White

CHARTS

UNIT OF MEASURE	Record Period		Higher Elevations (Pressure scales omitted)
MILLIBARS 965 TO 1050	Daily (29 hr.)		5-1071-MXD
	Weekly (195 hr.)	5-1071-M	5-1071-MX
	4-Day (108 hr.)	5-8600	—
INCHES 28.5 TO 31.0	Daily (29 hr.)	5-1071-SD	5-1071-XD
	Weekly (195 hr.)	5-1071	5-1071-X
	31-Day (861 hr.)	15621	15621
MILLIMETERS 724 TO 787	Weekly (195 hr.)	5-1071-MM	5-1071-MMX

ORDERING INFORMATION

MODELS AVAILABLE:

No. 5-800A — Microbarograph, with standard case & standard clock.

No. 5-800AM-1 — Microbarograph, with airtight case & balanced anti-backlash clock.

STATION ELEVATION MEAN SEA LEVEL

—1000 to 1500 ft.

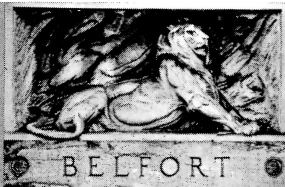
0 to 3200 ft.

2800 to 6200 ft.

5800 to 9200 ft.

8800 to 12,200 ft.

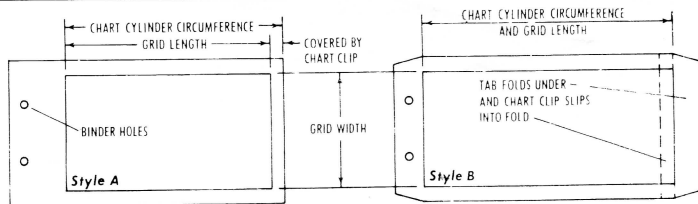
Specify — Microbarograph Model No., Chart No. and elevation where Barograph is to be installed.



BELFORT INSTRUMENT COMPANY
1600 SOUTH CLINTON STREET
BALTIMORE, MARYLAND 21224

BELFORT INSTRUMENT COMPANY

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SALES AND SERVICE • 2620 Concord Avenue #102 • Alhambra, California 91803 • Telephone (818) 282-4893 • Telex 6831262 (BLFCA)



REMARKS

General: Unless otherwise specified, grid lines are red.

- (1) 35.9-day charts-to-be used with Belfort's Electric Chart Drive only.
- (2) Blank spaces at major division lines to facilitate range change notations.
- (3) Naval Weather Service Barogram with 24-hour clock time-arc headings. Grid lines are brown.

- (4) Naval Air Systems Command P/N DTR-2-1 with 24-hour clock time-arc headings. Grid lines are green.
- (5) 24-hour clock time-arc headings.
- (6) Grid lines are black for viewing under red light.
- (7) Wind speed calibration is in KM/hr.
- (8) Undesignated pressure division permit use at any elevation.

RECTANGULAR CHARTS
Dew Balance, Cat. No. 6065 Series

Chart No.	Range	Chart Period hrs/rev	Grid Size		Least Division		Style Fig	Re-marks
			Width	Length	Range	Time		
14386	0-5 grams	176	3.15"	11.30"	0-5 gm	2 hrs.	A	
17606	0-5 grams	24	3.15"	11.52"	.25 gm	1 hr.	A	

Evaporation Recorder, Cat. No. 6075 Series

15215	0-20 kg/m ²	24	3.15"	11.52"	2kg/m ²	15 min.	B	
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Hygrothermographs, Cat. No. 594 Series

5-207-D	+10° to +110°F	29	—	11.30"	2°	30 min.	A	
	0 to 100% R.H.				2%			
5-207-W	+10° to +100°F	176	—	11.30"	2°	2 hrs.	A	
	0 to 100% R.H.				2%			
5-207-WB	+10° to +100°F	176	—	11.52"	2°	2 hrs.	B	
	0 to 100% R.H.				2%			
208-D	-12° to +43°C	29	—	11.30"	1°	30 min.	A	
	0 to 100% R.H.				2%			
5-208-D	-12° to +43°C	29	—	11.30"	1°	30 min.	A	
	0 to 100% R.H.				2%			
5-208-WB	-12° to +43°C	176	—	11.52"	1°	2 hrs.	B	
	0 to 100% R.H.				2%			
5-209-D	-30° to +70°F	29	—	11.30"	2°	30 min.	A	
	0 to 100% R.H.				2%			
5-209-WB	-30° to +70°F	176	—	11.52"	2°	2 hrs.	B	
	0 to 100% R.H.				2%			
5-208-W	-12° to +43°C	176	—	11.52"	1°	2 hrs.	A	
	0 to 100% R.H.				2%			
5-209-W	-30° to +70°F	176	—	11.52"	2°	2 hrs.	A	
	0 to 100% R.H.				2%			
5-212-W	0° to +140°F	176	—	11.30"	2°	2 hrs.	A	
	0 to 100% R.H.				2%			
15627	+10° to +110°F	861 (1)	—	11.52"	2°	6 hrs.	B	(2)
	0 to 100% R.H.				2%			
15677	-12° to +43°C	861 (1)	—	11.52"	1°	6 hrs.	B	(2)
	0 to 100% R.H.				2%			
16629	-34° to +21°C	176	—	11.52"	1°	2 hrs.	B	
	0 to 100% R.H.				2%			
16630	-34° to +21°C	861 (1)	—	11.52"	1°	6 hrs.	B	
	0 to 100% R.H.				2%			
16847	-16° to +60°C	176	—	11.52"	1°	2 hrs.	B	
	0 to 100% R.H.				2%			

Microbarographs, Cat. No. 5-800 Series

1071-ADB	28.0" to 30.5"	29	6.25"	11.30"	.02"	1 hr.	A	
5-1071	28.5" to 31.0"	195	6.25"	11.30"	.02"	2 hrs.	A	
5-1071-M	965 to 1050 mb	195	6.28"	11.30"	1 mb	2 hrs.	A	
5-1071-MM	724 to 787 mm	195	6.20"	11.30"	.5 mm	2 hrs.	A	
5-1071-MMX	63 mm	195	6.20"	11.30"	.5 mm	2 hrs.	A	(2)
5-1071-MX	85 mb	195	6.28"	11.30"	1 mb	2 hrs.	A	(2)
5-1071-MXD	85 mb	29	6.28"	11.30"	1 mb	15 min.	A	(2)
5-1071-SD	28.5" to 31.0"	29	6.25"	11.30"	.02"	15 min.	A	
5-1071-X	2.5"	195	6.25"	11.30"	.02"	2 hrs.	A	(8)
5-1071-XD	2.5"	29	6.25"	11.30"	.02"	15 min.	A	(8)
8600	965 to 1050 mb	108	6.28"	11.30"	1 mb	20 min.	A	(3)
15621	28.5" to 31.0"	861 (1)	6.25"	11.52"	.02"	6 hrs.	B	(2)
18785	965-1050 mb	29	6.28"	11.30"	1 mb	2 hrs.	A	

Precipitation Gages, Cat. No. 6071 Series

14836	0 to 30" DT	168	6.00"	11.52"	.1"	2 hrs.	B	
16052	0 to 30" DT	861 (1)	6.00"	11.52"	.1"	6 hrs.	B	
16053	0 to 750 mm DT	168	6.00"	11.52"	2 mm	2 hrs.	B	
16054	0 to 750 mm DT	861 (1)	6.00"	11.52"	2 mm	6 hrs.	B	

Pyranographs, Cat. No. 5-3850 Series

5-1050-AD	-.3 to +3.0	24	3.12"	14.18"	.1	15 min.	A	
5-1050-AW	gm-cal/	192	3.12"	14.18"	gm-cal/	2 hrs.	A	
15667	cm ² /min.	861 (1)	3.12"	14.40"	cm ² /min.	6 hrs.	B	

Station Barographs

5-1068	28" to 31"	176	3.00"	11.30"	.05"	2 hrs.	A	
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Chart No.	Range	Chart Period hrs/rev	Width	Length	Range	Time	Style Fig	Re-remarks
Thermographs, Cat. No. 5-518, 5-1100, 5-1125, and 5-1135 Series								
5-200-D	-35° to +110°F	29	4.44"	11.30"	1°	30 min.	A	
5-200-W	-35° to +100°F	195	4.44"	11.30"	1°	2 hrs.	A	
5-202-D	+5° to +150°F	29	4.44"	11.30"	1°	30 min.	A	
5-202-W	+5° to +150°F	195	4.44"	11.30"	1°	2 hrs.	A	
5-205-W	-37° to +43°C	195	4.44"	11.30"	1°	2 hrs.	A	
15665	-35° to +110°F	861 (1)	4.44"	11.52"	1°	6 hrs.	B	(2)
17495	-20° to +60°C	195	4.44"	11.30"	1°	2 hrs.	A	
17496	-20° to +60°C	861 (1)	4.44"	11.52"	1°	6 hrs.	B	(2)
Universal Rain Gage, Cat. No. 5-780 Series								
5-4003-B	0 to 6", ST	24	6.00"	11.52"	.05"	20 min.	B	
5-4006-B	0 to 6", ST	192	6.00"	11.52"	.05"	2 hrs.	B	
5-4006-MM	0 to 150 mm, ST	192	6.00"	11.30"	1 mm	2 hrs.	A	
5-4041-B	0 to 12", DT	6	6.00"	11.52"	.05"	5 min.	B	
5-4042-B	0 to 12", DT	12	6.00"	11.52"	.05"	10 min.	B	
5-4044-B	0 to 12", DT	48	6.00"	11.52"	.05"	15 min.	B	
5-4045-B	0 to 12", DT	96	6.00"	11.52"	.05"	1 hr.	B	
5-4046-B	0 to 12", DT	192	6.00"	11.52"	.05"	2 hrs.	B	
5-4046-MM	0 to 300 mm, DT	192	6.00"	11.30"	1 mm	2 hrs.	A	
5-4047-B	0 to 12", DT	24	6.00"	11.52"	.05"	15 min.	B	
5-4047-BMM	0 to 300 mm, DT	24	6.00"	11.30"	1 mm	15 min.	B	
5-4048-B	0 to 4.8", DT	6	6.00"	11.52"	.02"	5 min.	B	
5-4049-B	0 to 4.8", DT	24	6.00"	11.52"	.02"	15 min.	B	
5-4050-B	0 to 4.8", DT	192	6.00"	11.52"	.02"	2 hrs.	B	
5-4057-MM	0 to 2.4", DT	24	6.00"	11.52"	.02"	1 hr.	A	
5-4068	0 to 20", DT	168	6.00"	11.52"	.1"	2 hrs.	B	
15620	0 to 300 mm, DT	861 (1)	6.00"	11.52"	1 mm	6 hrs.	B	
15660	0 to 300 mm, DT	861 (1)	6.00"	11.52"	1 mm	6 hrs.	B	
15668	0 to 12", DT	861 (1)	6.00"	11.52"	.05"	6 hrs.	B	
15669	0 to 20", DT	861 (1)	6.00"	11.52"	.1"	6 hrs.	B	
16216	0 to 500 mm, DT	168	6.00"	11.52"	2 mm	2 hrs.	B	
16217	0 to 500 mm, DT	861 (1)	6.00"	11.52"	2 mm	6 hrs.	B	
16844	0 to 12", DT	168	6.00"	11.52"	.05"	2 hrs.	B	
18191	0 to 300 mm, DT	96	6.00"	11.52"	2 mm	4 hrs.	B	
18192	0 to 500 mm, DT	96	6.00"	11.52"	2 mm	4 hrs.	B	
18193	0 to 750 Mmm, DT	96	6.00"	11.52"	2 mm	4 hrs.	B	
Leaf Wetness Recorders, Cat. No. 6098 Series								
17391	Temp.: +20° to +100°F	176	4.75"	11.52"	2°	2 hrs.	A	
18653	Hum.: 0 to 100% Temp.: -17° to +38°C Hum.: 0 to 100%	176	4.75"	11.52"	2° 1° 2%	2 hrs.	A	
Water Level Recorders, Cat. No. 5-FW-1 Series								
5-1940-AB	50 Divisions	6, 12, 24	5.00"	14.40"		1, 2, 4 min.	B	
5-1941-AB	50 Divisions	96, 192	5.00"	14.40"		15, 30 min.	B	
5-1951-B	50 Divisions	8, 96, 192	5.00"	14.40"		5 min, 1, 2, hrs.	B	
15666	50 Divisions	861 (1)	5.00"	14.40"		6 hrs.	B	
TIPPING BUCKET RAIN GAGE, Cat. No. 300 Series								
1015080	24		7"	11.25"				
ROLL CHARTS								
Temperature Recorders, Cat. No. 5990 Series								
5-1021-S	Dew Pt.: -30° to +45°C Air Temp: -25° to +50°C	3	3.75"	102'	1°	15 min.		Celcius Degrees (4)
DTR-2-1	Dew Pt.: -30° to +120°F Air Temp: -20° to +130°F	3	3.75"	102'	2°	15 min.		
Wind Recorders, Cat. No. 1360 and 141 Series								
5-1010-75-1.5	Dir.: 360° Speed: 0 to 75	1.5	3.75"	102'	5° 1 unit	30 min.		
5-1010-75-3A	Dir.: 360° Speed: 0 to 75	3	3.75"	102'	5° 1 unit	15 min.		(5)
5-1010-120-1.5	Dir.: 360° Speed: 0 to 120	1.5	3.75"	102'	5° 2 units	30 min.		
5-1010-120-3-B	Dir.: 360° Speed: 0 to 120	3	3.75"	114'	10° 2 units	15 min.		(6)
5-1010-150M-3	Dir.: 360° Speed: 0 to 150 kph	3	3.75"	102'	5° 2 kph	15 min.		(7)
5-1010-60M-3	Dir.: 360° Speed: 0 to 60 mtr/sec	3	3.75"	102'	5° 2 m/s	15 min.		
512408	0 to 100 MPH	3	4.5"	93'	2 mph	1 hr.		
512408-2	0 to 100 MPH	1.5	4.5"	93'	2 mph	2 hrs.		
512411	0 to 360°	3	4.5"	93'	3°	1 hr.		
512411-2	0 to 360°	1.5	4.5"	93'	3°	2 hrs.		
518414	Dir.: 0 to 540°	3	—	93'	10°	1 hr.		
518414-1	Speed: 0 to 100 MPH Dir.: 0 to 540°	1.5	—	93'	2 mph 10°	2 hrs.		
516993	Speed: 0 to 100 MPH Dir.: 0 to 540°	3	—	93'	2 mph 10°	1 hr.		
521637	Speed: 0 to 120 Knots Dir.: 0 to 540°	3	—	93'	2 knots 10°	1 hr.		
2420658	Speed: 0 to 160 km/hr Dir.: 0 to 540°	3	—	93'	2 km/hr 10°	1 hr.		
	Speed: 0 to 50M/sec				1 m/s			
Event Recorders								
15752	Blank Roll Chart							
16346	Blank Roll Chart							
Mechanical Weather Station, Cat. No. 1070 Series								
1480710000	Dir.: 0 to 360° Speed: 0 to 100 MPH	10 mm/hr.	4.0"	52'	30° 10 mph			
1480720000	Temp.: -30° to +120°F Dir.: 0 to 360°	20mm/hr.	4.0"	52'	1°F 30°			
1728001000	Speed: 0 to 100 MPH Temp: -30° to +120°F	10 mm/hr.	4.0"	52'	10 mph 1°F			
1728002000	Dir.: 0 to 360° Speed: 0 to 100 KPH Temp: -32° to +50°C	20 mm/hr.	4.0"	52'	30° 10 kph 0.5°C			
	Dir.: 0 to 360° Speed: 0 to 100 KPH Temp.: -32° to +50°C				10 kph 0.5°C			