

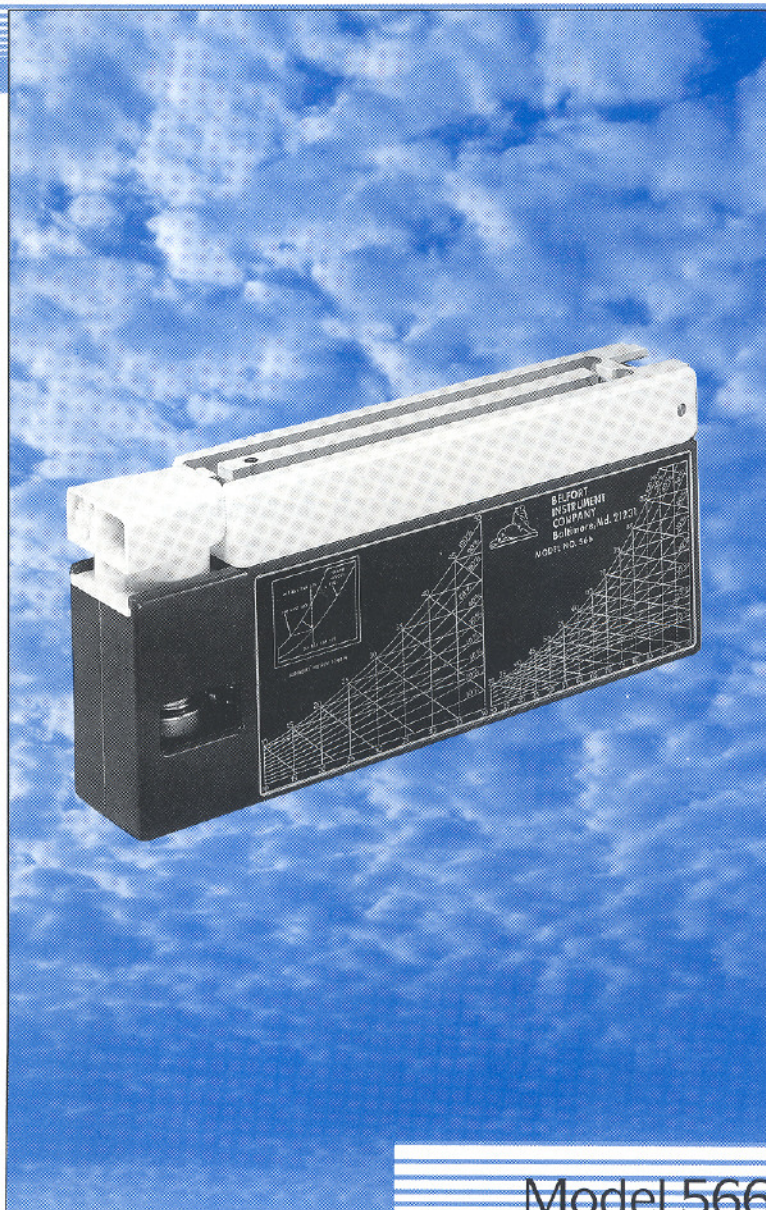
- MEASURES TEMPERATURE & HUMIDITY
- ASPIRATED
- RAPID RESPONSE
- MOLDED PLASTIC HOUSING
- FULL-LENGTH THERMOMETER VIEWING

The Psychron is a portable battery powered and motor aspirated psychrometer. It has many important advantages over conventional sling type psychrometers. No whirling or special technique is required to operate this portable instrument, making it easier and safer to use in close quarters.

A precise aspiration rate is obtained by a turn of the switch... thus eliminating the danger of expensive thermometer breakage and human errors which can occur with sling type psychrometers.

The Belfort Psychron® consists of a pair of wet and dry bulb thermometers, a thermometer lighting system, a small fan motor (powered by three standard size "D" batteries) and a molded housing. The fan motor is controlled by a three-position switch on the side of the housing. A turn of the switch, past the "on" position, provides illumination to the thermometers. A psychrometric slide rule and instruction book are supplied.

Psychron thermometers are graduated from + 10° to + 110°F. Psychrons may also be purchased with centigrade thermometers graduated from - 15° to + 45°C. Special ranges are available at a nominal cost. A sliding panel in the Psychron housing permits



Model 566

easy access to the battery compartment and the water bottle. Shielding from the effects of external heat radiation is provided by the removable air intake through which air is drawn at a rate exceeding 15 feet per second.

SPECIFICATIONS

Ranges	+ 30 to + 120°F + 10 to + 100°F + 10 to + 110°F - 15 to + 45°C
Thermometer Accuracy	Matched pair, within 0.3°F (.2°C)
Thermometer Graduations	1°F (0.5°C)
Temperature Resolution	0.2°F (0.1°C)
Response Time	1 ½ to 2 minutes
Psychrometric Tables	
Pressure = 30"Hg	+ 10 to + 140°F for R.H. and dewpoint.
Pressure = 29.24"Hg .	- 15 to + 45°C for R.H.
Slide Rules	+ 20 to + 100°F (- 7 to + 38°C)
Battery Life	250 operations - when operated at rate of 2 min./hr. for 250 successive hours, with aspiration rate exceeding 15 f.p.s. (5 m/s)
Thermometer Length	8 7/8 in. (22.5 cm)
Dimensions	
Psychron	10" L x 4 5/16" H x 1 13/16" D (25 x 11 x 4.6 cm)
Carrying Case	10 7/16" L x 6 3/16" H x 2 7/8" D (26 x 16 x 7.3 cm.)
Weight	Complete with acces- sories (less Batteries 3 lbs. (1.4 kg)
Shipping Weight	6 lbs. (2.8 kg)

PSYCHRON®

Model 566

ACCESSORIES

- Psychrometric Slide Rule
- One 1 oz. Plastic Water Bottle
- Instruction Manual (PN 509942)

OPTIONAL ACCESSORIES

Description	Part No.
Plastic Carrying Case	2415870
Extra 2 oz. Plastic Water Bottle	524177
Box of Thread and 25 Wicks	524199-2
Spare Thermometers:	
+ 10 to + 100°F	524078-4
+ 30 to + 120°F	1130174-2
+ 10 to + 100°F (red alcohol)	524078-5
+ 10 to + 110°F Hg	1130369-2
Spare Lamp	502047-2
Reference Booklet (containing additional Humidity and Dew Point Tables)	511689

ORDERING INFORMATION

Model	Description	Part No.
566-2	Fahrenheit (+ 10 to + 110°F) (Mercury)	524120-2
566-3	Centigrade (- 15 to + 45°C) (Mercury)	524120-3
566-6	Fahrenheit (+ 30 to + 120°F) (Mercury)	524120-6
566-8	Fahrenheit (+ 10 to + 100°F) (Alcohol)	524120-8

For Further Information, Contact:

Belfort Instrument Company
727 South Wolfe Street
Baltimore, MD 21231 USA

TEL: (410) 342-2626 FAX: (410) 342-7028

