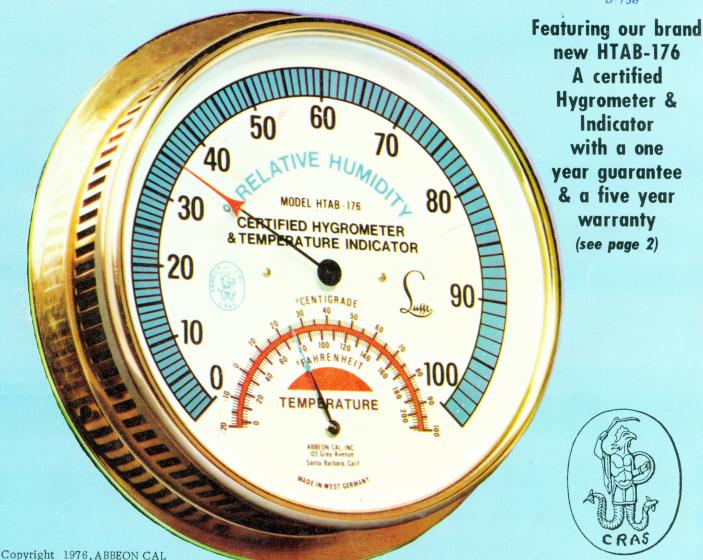
ABBEON'S INDUSTRIAL LABORATORY AND PLANT INTERIM CATALOG #2

JOHN A. LEDNICKY P.O. BOX 250 GREENHILLS P.O. RIZAL, PHILIPPINES



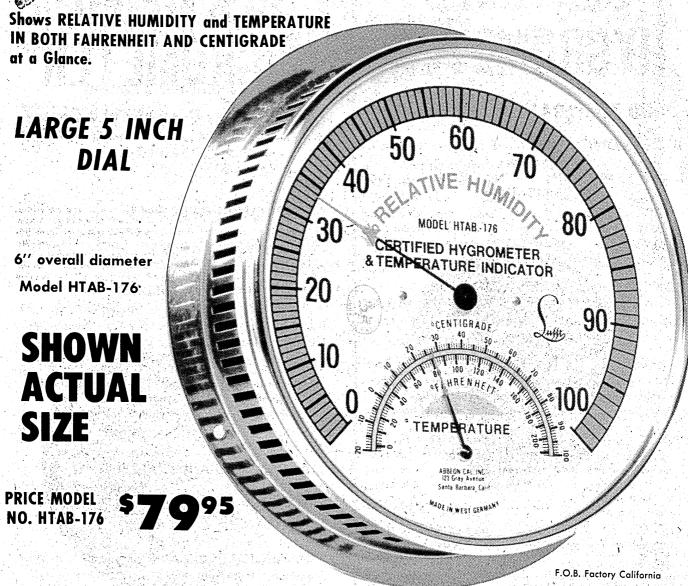
QUO DUBITARE PROCRASTINUS

NOTE: Prices herein are as of January 1, 1976 and are subject to adjustment to price schedules as of shipment date.

Rest assured that we will always charge the lowest fair price possible—you are protected by our

IRONCLAD GUARANTEE No ifs, ands or buts in our guarantee — here it is — 100% absolute satisfaction is guaranteed or your money back within 10 days without question or quibble.

インハルC3.1、A MNSC ABBEON'S NEW CERTIFIED HYGROMETER AND TEMPERATURE INDICATOR



THE ABBEON CERTIFIED HYGROMETER MODEL NO. HTAB-176 is certified to be accurate within 2% plus or minus. The dial indicates the complete range of 0 to 100% relative humidity. Each instrument has been tested at three different positions of the dial at temperatures ranging from 32 degs. to 230 degs. F. The original calibration and certification are done under the supervision of Dr. Helmut Brauckhoff of the G. Lufft Metallbarometerfabrik GmpH-Stuttgart, under the standard conditions of the Federal Republic Test Society.

This is the only humidity indicator that we know of that has a 1-year guarantee and a 5-year warranty. Some of our humidity indicators working on the same principle as this improved instrument have been in use for over 10 years and are giving satisfactory service day after day, month after month; and year after year.

SPECIFICATIONS FOR THE MODEL NO. HTAB-176 ARE AS FOLLOWS: Casing solid brass with gleaming finish, color differentiated dial with black numbers and lettering, red tipped pointer, casing is drilled for wall mounting. Temperature dial range is minus 20 to 100 degs. C and 0 to 210 degs. F. Dial is direct reading without any calculations whatsoever. Size 6 inches overall, dial face 5 inches in diameter. Shipping weight 3 pounds

ONE YEAR GUARANTEE

Any time within one year from date of purchase we will repair or recalibrate this instrument without charge for any defect due to manufacture.

FIVE YEAR WARRANTY

After expiration of the one year warranty we will repair, recalibrate or replace this instrument at the following service charge:

2nd year, 20% of prevailing new unit price 3rd year, 40% " " " " " "

4th year, 60% '

5th year, 80% "

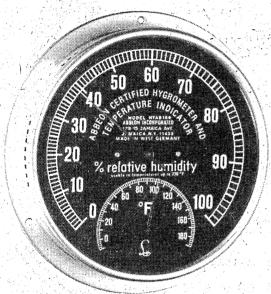
THE ABBEON

CERTIFIED HYGROMETER

AND TEMPERATURE INDICATOR

Shows RELATIVE HUMIDITY and TEMPERATURE at a Glance

LARGE 5 INCH DIAL - NO SQUINT **CALCULATIONS**



6" overall diameter

Model HTAB169-B

The Abbeon Certified Hygrometer Model No. HTAB-169 is certified to be accurate within 2% plus or minus. The dial indicates the complete range of 0 to 100% relative humidity. Each instrument has been tested at three different positions of the dial at temperatures ranging from 32 degs. to 230 degs. F. The original calibration and certification is done under the supervision of Dr. Helmut Brauckhoff of the G. Lufft Metalbarometerfabrik, GmbH-Stuttgart, under the standard conditions of the Federal Republic Test Society.

Each instrument is rechecked before shipment. If it varies from test accuracy during field use it can be brought into calibration by checking it against a known standard and if need be resetting to the correct reading by turning the calibration screw, located inside the wide bottom slit.

Specifications for the Model No. AB-169 are as follows: Casing solid brass with gleaming finish, black dial with white numbers and lettering, red tipped pointer, casing is drilled for wall mounting. Temperature dial range minus 10 degs. F. to 190 degs. F. Dial is direct reading without any calculations whatsoever. Size 6 inches overall, dial face 5 inches in diameter. Shipping weight 3 pounds.

Price Model No. HTAB-169-B

Your check with order we pay postage. Or rated firms shipped open account net 10 days. F.O.B. Santa Barbara, Calif.

PLEASE KIND FRIEND MARK ON YOUR ORDER CATALOG NO. AND PAGE NO.

THE ABBEON

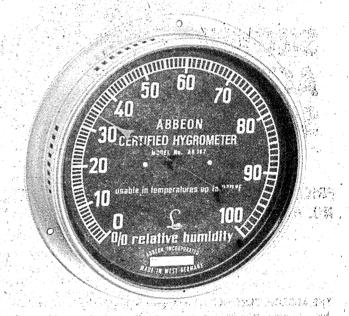
CERTIFIED HYGROMETER

Shows Relative Humidity at a Glance

LARGE 5 INCH DIAL - NO SQUINT - NO **CALCULATIONS**

6" overall diameter

Certified Hygrometer No. 167 is certified to be accurate within 2% plus or minus. The dial indicates the complete range of 0 to 100% relative humidity and each instrument has been tested at three different positions of the dial at temperatures ranging from 32° to 230° F. The original calibration and certification is done under the supervision of Dr. Helmut Brauckhoff of the G. Lufft Metal barometerfabrik. GmbH Stuttgart, under the standard conditions of the Federal Republic Test Society.



SOLID BRASS CASING

Model AB-167-B

Over 50,000 Abbeon Humidity Indicators are in daily use. We are willing to stake our reputation built on 35 years of experience in ... selling over \$2,000,000 net of humidifiers, dehumidifiers and humidity indicators on the fact that this Model AB-1.67 is the finest direct reading humidity indicator that you have ever seen.

IRONCLAD GUARANTEE

No ifs, ands or buts in our guarantee - here it is - 100% absolute satisfaction is guaranteed or your money back within 10 days without question or quibble.

PRECISION INSTRUMENTS FOR HOME, OFFICE AND FACTORY

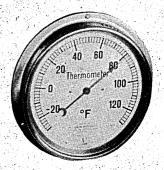
No. 10-122-B-

MAXIMUM AND MINIMUM THERMOMETER

A newly designed model with "Shelter Top" hood so that accurate readings will be obtained when the thermometer is exposed to the weather in an unsheltered area. The hood may be removed when the thermometer is installed in a sheltered area. The white scale is graduated from -40 to + 120 F in 2 divisions and is set into a grey plastic case 101/2" long. Supplied complete with magnet and

No. TAB 63 Dial Thermometer

A precision thermometer to match the AB-62 Precision Hygrometer. Large easy to read dial graduated in 2 degrees. Range minus 30° to plus 130°F. Case specifications the same as No. AB-62 Hygrometer.



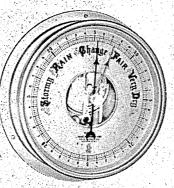
ALSO AVAILABLE IN THESE RANGES

THIS IS OUR FAMOUS YMCAT (10-128) THERMOMETER USED IN SAUNAS AND STEAMROOMS -

RANGE 30°F-230°F 2° INCREMENTS No. YMCAT-B

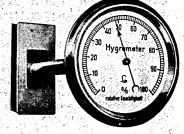
BAR 130-B BAROMETER

This fine precision barometer is the same size and general appearance as No. AB62 Humidity Indicator and No.TAB 63 Dial Thermometer and is often used with them to make a matching set. It features an open dial graduated from 28 to 31 inches with a visible precision polished mechanism and solid brass case.



AB10-B INSTALLATION **HUMIDITY INDICATOR**

Hygrometer for wall installation with immersion tube for large wall thickness. Rigid immersion tube with "Durotherm" measuring element mounted in perforated metal case. Aluminum dial 4" in diameter with nickel plated bezel. Suitable for relative humidity measurements at high temperatures up to 230°F. Measuring range 0 to 100% relative humidity.



No. 10-106-B 4" Immersion depth=

No. 10-107-B 10" Immersion depth=\$11495

No. 10-108-B 20" Immersion Depth=\$ 1 4 5 50

M2A4 RELATIVE HUMIDITY AND TEMPERATURE INDICATOR



Shows relative humidity and temperature at a glance. The precision "Durotherm" hygrometer element is combined with a properly designed metallic thermometer and mounted in an attractive gleaming brass case.

SPECIFICATIONS: Relative Humidity Range: 0 to 100% Temperature Range: -10°F. to

Case: Polished brass-6" overall diameter Dial: Silvered with black figures-5" dia-

OVER 20,000 IN DAILY USE

No. M2A4-B

AB-62 PRECISION

HUMIDITY INDICATOR



For use where precision accuracy is required. Featuring the "Durotherm"* element, this model has a polished brass flange type case with silvered metal dial. The dial is graduated in single percentages. Size: Dial 5' Overall 6".

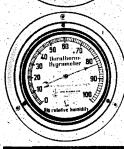
Item No. 10-101

WHEN ORDERING-PLEASE MENTION CATALOG NO. AND PAGE NO.

MONEY BACK GUARANTEF

We guarantee 100% absolute satisfaction - no ifs - no ands - no buts order what you wish - try them free for 10 days - if not completely satisfied return them without any obligation. F.O.B. Warehouse California





No. AB2T-B INDUSTRIAL **HUMIDITY INDICATOR**

Precision Hyg.-meter with "Durotherm" measuring element. Flush mounted type with ventilation slits on the hidden side for measuring relative humidity. Suitable for installation at the outside of air ducts, drying chambers, incubators, etc. Can be used at temperatures up to 230°F. Measuring range 0 to 100% relative humidity.

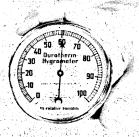
MODEL				Α	B2T
Dial Di	ameter:				51/8"
Overall	Diamete	r:			7".
Mountin	g Depth:				1"
Price:			·		E 0

No. AB3T-B MATCHING THERMOMETER Range — 20 to +120°F

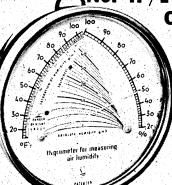
MODEL #R-560-A CONTAINER TYPE HYGROMETER **USED TO DETERMINE MOISTURE CONTENT**

By using this instrument the absolute moisture content of grainy or powdery materials can be determined. Place matter in anodized aluminum cup, cap, wait approximately 20 minutes, the relative humidity is shown on the Direct Reading Dial. This reading can then be referenced to a humidity equilibrium table, which is included. Size: 3¾" high. 4" diameter.





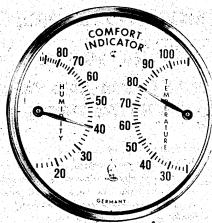




- Relative Humidity
- Temperature
- Absolute Humidity
- Dew Point
- Saturation Humidity
- Saturation Deficit
- K Indication Night Frost
- **★** Comfort Indicator

Brass case with silvered dial 4" in diameter. Relative Humidity Range: 20% to 100%. Temperature Range: $\pm 20^\circ$ to 100°F.

A scientific instrument combining a specially calibrated bimetallic thermometer and "Durotherm" hygrometer, Due to the outstanding construction and calibration of this instrument the used can easily obtain the forementioned readings relating to atmospheric conditions. WHEN ORDERING-PLEASE MENTION CATALOG NO. AND PAGE NO.



No. 993-B COMFORT INDICATOR

A new model combining" Precision" hygrometer and thermometer on single scale that will stand on table or desk or hang on wall. The 31%" dial is colorcoded to show the proper temperature and humidity ranges for comfortable room conditions. Polished brass case with folding easel and wall hanger.

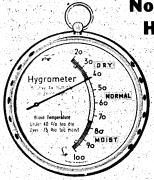
PRICE \$2350



No. 5024-B CERTIFIED DUROTHERM HYGROMETER AND THERMOMETER

Designed for those who require an easy-to-read highly accurate instrument. A test certificate is supplied with each instrument certifying that it has been calibrated to an accuracy of within 2% relative humidity and ±2° temperature. The jet black scale has white graduations with a relative humidity range from 0 to 100% in 1% divisions and a temperature range from -20° to + 120°, Fahrenheit in 2% divisions. The rectangular metal case is framed in satin brass measuring 8"x5" and can either hang or stand.

PRICE \$7500



No. 5/90-B ROOM HYGROMETER

The proper humidity is essential to healthy living conditions. This precision hygrometer with the new Lufft "Durotherm" element is smartly styled to create a decorative but useful touch to any wall. Polished brass case with silvered metal dial. The dial is clearly marked to

show the proper humidity that should be maintained. Size: Dial 31/2" Overall 334".

PRICE \$2150

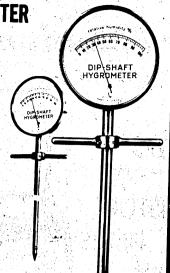
F.O.B. Warehouse California

PAGE 5

DIP SHAFT HYGROMETER

This instrument obtains a true reading of the relative humidity of the interior of bulk materials. The shaft is some 20 inches long and is easily probed into loose products such as wool, cotton, flour, hay, tobacco, grain, paper, etc. The probe end contains a hygro sensitive element which transmits the reading mechanically to a dial at the top of the instrument. This relative humidity reading allows the observer to determine the percent of moisture content by empirical experience or by consulting Table of Humidity Equilibrium.

Model ABX-11-B \$6450



POCKET SLING PSYCHROMETER

THERMOMETER WITH CLEAN WATER AND WHIRL THE SLING PSYCHROMETER UNTIL THE TEMPERATURE STOPS DROPPING. READ THE TWO THERMOMETERS AND PLACE WET BULB TEMPERATURE OVER THE DRY BULB TEMPERATURE SCALE ON THE SLIDE RULE THE ARROW WILL THEN POINT DIRECTLY TO THE ACCURATE RELA TIVE HUMIDITY. — THAT'S ALL THERE IS TO IT! CARRY IT IN YOUR BREAST POCKET.

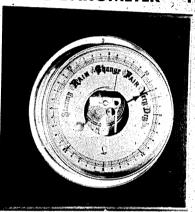


To create these attractive models we have taken our popular No. 2/130 series of barometer, thermometer and hygrometer and mounted them on 7 34" square wood wall

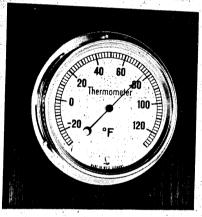
plaques. The wood plaques are made from

34" thick air dried native Maine white pine sanded and finished to bring out the ever varying grain patterns of this most interesting wood. The plaque is stained a medium brown, vinyl sealed and lacquered to best reveal the grain pattern and resemble a hand rubbed finish. The polished solid brass cases of the instruments against the wood background create a most attractive and

WALL BAROMETER - THERMOMETER OR HYGROMETER



No. 3130B



No. 3130T

50 60 70 40 Obcotherm 80

No. 3130H

No. 3130BB WALL BAROMETER - PRICE \$4250 EACH

No. 3130TB WALL THERMOMETER - PRICE \$4250 EACH

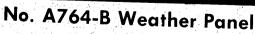
No. 3130HB WALL HYGROMETER - PRICE \$4250 EACH

No. 1906B WINDOW WEATHER SET

A complete miniature weather bureau for mounting outside the window. This outstanding instrument combines barometer, thermometer and hygrometer mounted in a weather proof case with brackets for mounting on window frame, porch, etc. where it is visible from indoors. Height 6", Width 21/2

PRICE \$49.50

WHEN ORDERING - PLEASE MENTION CATALOG NO. AND PAGE NO.



In response to many requests, we have taken the popular No. 2/130H "Durotherm" hygrometer with matching thermometer and barometer and mounted them on a grained walnut panel. The result is a panel of three scientific precision instruments in a setting that would make a worthy addition to any home, office or club. Instruments: Polished brass cases 6" diameter.

Panel: Grained walnut width 22", height 7 3/4".

PLEASE KIND FRIEND MARK ON YOUR ORDER CATALOG NO. A

useful wall piece.

Price \$125.00

The Moisture Monitor



DIRECT READING, NO CALIBRATION, NO CHARTS
NATURAL OR SYNTHETIC FIBERS, SINGLE FIBER OR BLENDS
INTERCHANGEABLE DETECTORS

The M-200 Partable Moisture Monitor is designed to give immediate readings of moisture in textile fibers and blends . . . without the aid of bone dry tests, correlation charts, or special settings.

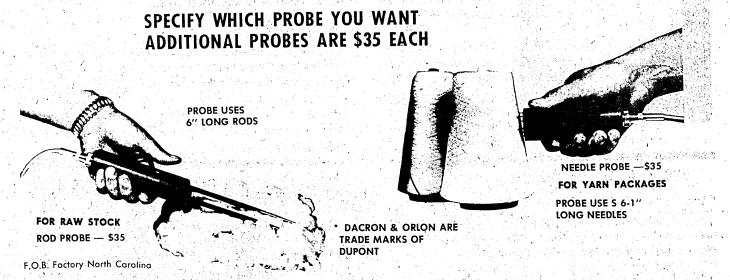
A "percent regain" reading is obtained by simply applying the detector roll to the material . . . single fiber or blend . . . at virtually any stage of the textile manufacturing process. It is especially valuable in spot checking moisture in loom beams, fabrics, and picker laps . . . while in motion or while standing . . . in the laboratory or in the mill.

Nine operating positions, easily selectable on the front panel, cover every important application, from warps and fabrics to raw stock, moving or standing, in simple construction or blend, natural or synthetic.

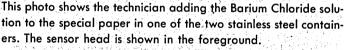
65-35 Dacron-Cotton . . . 50-50 Acetate-Rayon 70-30 Wool-Orlon . . . read them all without making a single change and without any special data. Regardless of fiber participation from zero to one hundred per cent, the instrument reads actual moisture . . . in total . . . and in each fiber, separately.

Permanently calibrated from 0.1 to 36 per cent regain, the M-200 is the one instrument that meets every require-

WHEN ORDERING - PLEASE MENTION CATALOG NO. AND PAGE NO.







Model 5803 aW-Value Analyzer

includes 2 complete stainless steel measuring containers & 2 sensor heads with built in temperature & humidity indicators, o-rings, barium chloride, special paper & thermally insulated styrofoam case.

Additional - Barium Chloride - 3 ounces - Cat. #BL-5803 \$6.95 Additional - Special Paper - 100 discs - Cat. #SP-5803 \$12.95

MEASURE WATER ACTIVITY (aw) WITH GREAT EASE AND SIMPLICITY

Abbeon announces that its NEW Model 5803 aw-Value Analyzer is now in full production after extensive laboratory and field testing.

The Abbeon aw-Value Analyzer Model #5803 is used to measure the "Water Activity" (free water) in meat, poultry, fish and other foods — either fresh or processed.

Bacteria need free water to grow; bacteria will not grow in a perfectly dry product. By measuring the "Water Activity" (free water), meat processors, sellers, inspectors and users can determine if the foodstuff under test can support the growth of potentially harmful bacteria. The aw-Value Analyzer is primarily used to measure the free water content of meat and other food products normally sold or offered as "shelf-stable" — or not requring refrigeration. The analyzer may also be used effectively to measure free water content of any foods for a variety of reasons such as studies on freezing techniques and other processing techniques.

For inspecting, selling, processing, or the study of meat, poultry, fish, an aw-Value Analyzer will prove invaluable.

In general, bacteria will grow in materials with an aw

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\$285.0

value of .86 or more and will not grow with values of .86 or less — assuming a temperature of 20°C and an appropriat pH value.

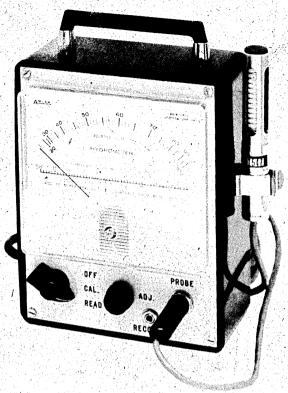
The operation of the analyzer is relatively simple. A cup sample of the product under test is put into a small, close container. At the end of three hours at 20°C, the product ha reached hygrometric equilibrium with the air above the sample. A precalibrated humidity indicator (hygrometer built into the space above the sample now indicates the aw value directly on an easily readable dial.

Calibration of the hygrometer is easily achieved by placing a Barium Chloride solution in the container, waiting three hours, and adjusting the aw meter to read .90. It is we known from a multitude of tests that Barium Chloride at 20° (will come into hygrometric equilibrium with the air above in at a reading of .90 (relative humidity).

Model 5803 aw-Value Analyzer contains two complete analyzing containers and a thermally insulating expanded polystyrene case. Price is \$285.00.

PLEASE KIND FRIEND MARK ON YOUR ORDER CATALOG NO. AND PAGE NO

HYGROMETER **Electronic Direct Reading**



- SIMPLE ONE-STEP OPERATION . .
- RAPID, DIRECT, READOUT . . Does not require psychrometric tables!
- WIDE RANGE OPERATION . . . Determines % R.H. over temperature
- range-20 to 80° C! ACCURATE MEASUREMENT .
- Over range 20 to 100% R.H.!

APPLICATIONS

- MULTIPLE SENSING . .
- With one instrument!
- REMOTE READING . To 1000'
- INTERCHANGEABLE SENSORS ... No recalibration réquired!
- RECORDER OUTPUT JACK
- EASY TO READ 41/2" METER
- FACTORY WARRANTY
- One year!

Measurement of relative humidity in processing of: Chemicals, Paints, Foods, Dyes, Wood, Paper, Pharmaceuticals.

Used in warehouses and storage bins, dry air for computers and other electronic equipment, and many other humidity sensitive areas.

SPECIFICATIONS

HYGROMETER

Rugged, black plastic case (7"x5"x2") with handle, large 4 ½" meter, 20 to 100% R.H. range with—20 to 80° C temperature correction, built-in voltage calibration check, output jack for recorder (50,000 ohm minimum impedance), 6' line cord. All components mounted on front panel. Model HID 20-100 110 VAC 50/50 cyc

\$286.00

Shipping Wt. 4 lbs. 8 oz. (SHIPPED COMPLETE WITH SENSOR)

SENSOR

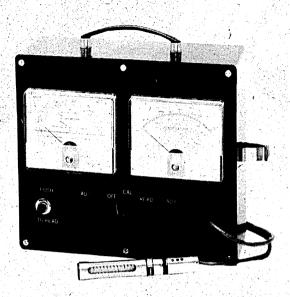
Model HS1-6. Absorbent co-polymer with parallel resistance grids. Resistance changes directly with variation to relative humidity. Plastic housing 1" dia. x 3" lg. Supplied with 6' cable and connector.

10 foot, 25 foot, and 100 foot extension plugs in cables can be supplied at an additional charge.

BATTERY OPERATED UNIT

MODEL PH1 \$297.00 SHIPPED COMPLETE WITH SENSOR SHIPPED FROM FACTORY, NEW JERSEY

HYGKU-IHEKM **Electronic Direct Reading**



- Relative humidity from 20% RH to 100% RH.
- Temperature range from—20° C to 80° C.
- Combined in one remote probe.
- Two recorder jacks available—for temperature and humidity.
- Voltage regulated.
- Accuracy ± 1% RH, ± ½° C. Temperature.
- Remote reading probes in varying lengths and shapes.
- Factory warranty for one year.

MODEL HT-1 (ELECTRIC MODEL) 115 VOLT AC-COMPLETE

MODEL PHT-1 (BATTERY OPERATED) COMPLETE-

\$424.00

\$448.00

Black bakelite case (8" x7" x 3") with plastic carrying handle. Two large. 3½" meters, for separate indication of temperature and humidity. The humidity scale is 20% — 100% RH and the temperature range is — 20°C to 80° C (0°-180° F). The humidity meter contains an easy conversion chart for humidites at all temperatures in the temperature range. A special Humidity-Dewpoint chart is included.

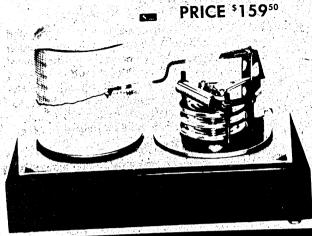
The Hygro-Therm is made with a built-in voltage control, thus eliminating voltage variations on the line-115 Vac.

Hygro-Therm probes are matched for speed in reporting. The humidity probe is a special co-polymer moisture vapor is absorbed on the surface of the probe thus effecting the electrical resistivity of the sensor. This change is resistance is read-out as % Relative Humidity. The temperature probe is a thermistor. Temperature affects the resistance of the thermistor; this change in resistance is read-out on the meter in degrees Centigrade and Fahrenheit.

The probes cannot be affected by common laboratory gases or increased pressure, and will report accurately any changes in humidity and temperature whether in or out-of-doors. Dust or dirt merely slow down the reporting time, the sensors may be washed with compressed air or distilled water.

SHIPPED F.O.B. FACTORY, NEW JERSEY

A One year factory warranty for factory caused, or originated, defects covers each instrument.



No. 8005-B ELECTRO-BAROGRAPH (BATTERY OPERATED)

To meet the demand for an accurate, moderately priced, compact recording barometer, Lufft has developed this outstanding instrument: Weighing only 3 pounds and easy to operate, this precision instrument is attractively styled and suitable for home, office or factory. The triple vacuum highly accurate mechanism is finished in a rich satin brass and mounted on a highly polished mahogany finished wood base with a removable clear plastic protective cover. The chart drum is activated by a readily available 1.5 volt battery easily installed in the base.

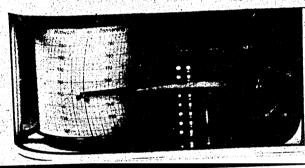
Every instrument is supplied with complete instructions, 1 battery and 1 year supply of charts and ink. A five year guarantee is supplied with each instrument.

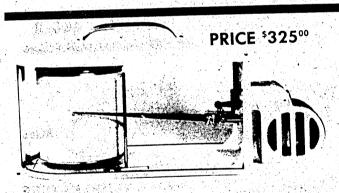
Length: 8 inches Height: 5 inches Depth: 4 ½ inches Barometric range: 28 to 31 inches

No. RMM-B BAROGRAPH

Precision compensated eight vacuum mechanism mounted in modern full view metal case with imitation mother of pearl finish and chrome carrying handle. First quality 8 day clock mechanism with drum revolving once in seven days. Standard measuring range 28 to 31 inches atmospheric pressure. Supplied complete with one year supply of charts and ink. Length 10 inches, Width 51% inches, Height 71% inches.

PRICE *34500



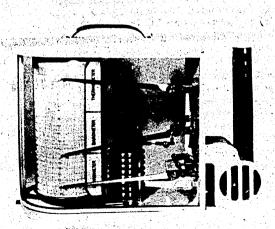


No. TB-B THERMOGRAPH (Recording Thermometer)

Very sensitive bimetallic element placed outside the case in p tective shock proof guard. First quality 8 day clock mechaniwith drum revolving once in 7 days. Mechanism is mounted modern metal case with carrying handle with imitation Mother Pearl finish and full view glass panel.

Available with temperature ranges of ± 6 to 120° F; -20° 120°F; ± 76 to 190° F. Supplied with one year supply charts on ink.

Length: 13 1/4 Inches Width: 5 1/8 Inches Height: 7 1/8 Inches



PRICE \$650°°

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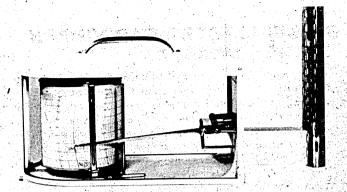
No. BTH-B METEOROGRAPH (Combined Recording Barometer-Thermometer-Hygrometer)

This instrument records air pressure, temperature and rela humidity on one chart. The precision "Durotherm" hygromelement and the highly sensitive bi-metallic thermometer elemented outside the case in protected guards for the unin precision accuracy. The barometer is a compensated 8 vac mechanism. The modern metal case with carrying handle finished in imitation Mother of Pearl with full view glass parties that you will be a supplied to mechanism with drum revolving one 7 days. Supplied complete with one year supply of charts ink.

Length: $13\,\%$ Inches Width: $5\,\%$ Inches Height: $10\,\%$ Inches Hygrometer range: 30 to $100\,\%$ relative humidity.

Thermometer range: Plus 8° to 134°F.

PLEASE KIND FRIEND MARK ON YOUR ORDER CATALOG NO. AND PAGE



No. RH-B HYGROGRAPH (Recording Hygrometer)

The precision "Durotherm" measuring element is mounted outside the case in a vertically mounted perforated basket for the utmost in accuracy and sensitiveness. Modern metal case with carrying handle with imitation Mother of Pearl finish. First quality 8 day clock mechanism with drum revolving once in 7 days. Measuring range 0 to 100% relative humidity. Supplied with one year supply of charts and ink. Length: 14 inches Width: 5 1/8 Inches Height: 9 Inches.

PRICE \$33900

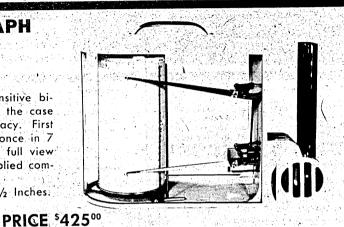
No. TH-B THERMO HYGROGRAPH (Combined Recording Thermometer and Hygrometer)

The "Durotherm" hygrometer element and highly sensitive bimetallic thermometer mechanism are mounted outside the case in protected guards for the utmost in precision accuracy. First quality 8 day clock mechanism with drum revolving once in 7 days. Modern metal case with carrying handle and full view glass panel with imitation Mother of Pearl finish. Supplied complete with one year supply of charts and ink.

Length: 13 1/4 Inches Width: 5 1/8 Inches Height: 10 1/2 Inches.

Hygrometer range: 0 to 100% relative humidity

Thermometer range: Plus 6° to 120°F.

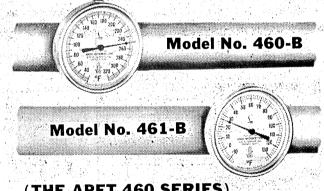


ABRAX PIPE THFRMOMETERS

The Abrax Pipe Thermometers simply and easily clip to steam, water, refrigeration, gas and other pipes by means of twin spiral spring clips supplied with each instrument. These Thermometers can be attached or removed from the pipes in seconds and require no alteration, branching or drilling of the pipes.

Abrax Pipe Thermometers are precalibrated to counteract the possibility of error through heat losses by radiation or convection.

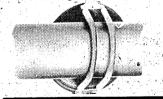
They can be used for all pipes up to 3½" in diameter. The dials are 2½" in diameter, silvered, with black figures and polished chrome casings. The Thermometers are graduated in 2° divisions.



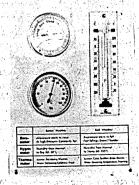


FOR EASY READING OF PIPE SURFACE TEMPERATURE OVER 12,500 IN USE DAILY, 21/2" EASY TO READ DIAL CLIPS ON IN SECONDS WITH DUAL SPRING CLIP

The Abrax Pipe Thermometers come in two temperature ranges: Model No. 460-B-range plus 32° to 320° F. Model No. 461-B-range minus 14° to plus 134°



WEATHER SERVICE



No. BK-B OUTDOOR WEATHER STATION

A very popular outdoor weather station suitable for gardens, resorts, factories, public buildings or advertising purposes. This weather station consists of a barometer, hygrometer and maximum - minimum thermometer mounted on a white weather-proof metal frame. Complete weather forecasting information is painted in black on the frame. The precision barometer and hygrometer have silvered dials, 4" in diameter with black graduations. Supplied complete with magnet and decorative mounting screws. Height: 16", width: 10".

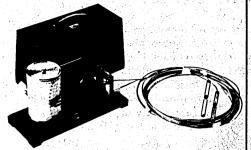
, F.O.B. Warehouse California

WHEN ORDERING-PLEASE MENTION CATALOG NO. AND PAGE NO.

PRICE \$7950

PAGE 11

NO. 3510 SERIES SINGLE AND DUAL POINT DISTANCE THERMOGRAPHS



DESCRIPTION

The 3510 Series Single and Dual Point Distance Thermographs are used to accurately record the temperature of soil, air or water at a distance of 15 feet or 30 feet depending on the capillary selected.

The one and two pen systems record simultaneously on a single chart 4.75 inches in height with standard

temperature ranges of 10°F to 120°F, 20°C to 40°C and 30°F to 80°F. With the 3510 two point distance thermograph, one trace is distinguished from the other by use of green ink in one pen and red ink in the

The thermal bulb and the capillary are fabricated from 347 stainless steel, the thermal bulb itself is 1/2 inch in diameter and 6½ inches long. The linkages, pivots and all internal working parts are fabricated from 304 stainless steel, and operate in jewel olive hole bearings. The base is fabricated from aged tenzaloy and the lid is fabricated from cold rolled steel. The unit

is painted hammertone green.

This instrument can be provided with a long term strip chart attachment and long term inking system that will run for a 90 day period without changing the chart. The attachment will operate on one 11/2 volt "D" cell battery for approximately six months.

SPECIFICATIONS

ACCURACY	
CALIBRATION	

± 2%

10°F to 120°F, -30°F to 80°F, 20°C to 40°C (adjustable to any 110°F range between -40°F and +120°F)

SENSORS

Mercury activated, temperature compensated, type 347 stainless steel, 1/8" O.D. capillary tubing 15' or 30' (other lengths available

11 jewel lever escapement.

4 3/4" x 11 9/16",

2°F graduations

on special request) Spring Wound (176 hour rotation)

STANDARD CHART DRIVE

CAPILLARY LENGTH

STANDARD CHART SIZE

OPTIONAL CHART

DRIVE OPTIONAL CHART

SIZE STANDARD INK

SYSTEM WEIGHT 4" height with one hour timing marks and 2°F graduations. Stainless Steel pot pen (approximately 30 day capacity) (Single Point 15' capillary) 12 lbs.

90 day strip chart, 1 1/4 VDC, 1/4"-hr. feed rate.

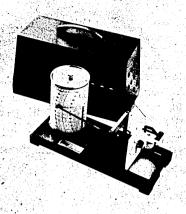
ORDERING INFORMATION

NO. 3510-15S SINGLE POINT THERMOGRAPH (15' Capillary)	\$363.00
NO. 3510-30S SINGLE POINT THERMOGRAPH (30' Capillary)	\$396,00
NO. 3510-15D DUAL POINT THERMOGRAPH (15' Capillaries)	\$484.00
NO. 3510-30D DUAL POINT THERMOGRAPH (30' Capillaries) (The above are seven day drum rotation, include pen, ink and 100 charts)	\$522.00
OPTIONAL 90 DAY STRIP CHART (add "LT" to Model No.)	add \$319.00
NO. 5025 BALANCED PRESSURE INKING SYSTEM	\$10.00

CHARTS

CHARLE STATE OF THE PARTY OF TH	
3500-W-HF 10°F to 110°F (176 hour rotation)	\$7.50/100
3500-W-LF -30°F to 80°F (176 hour rotation)	\$7.50/100
3500-W-C 20°C to 40°C (176 hour rotation)	\$7.50/100
3500-LT-HF 10°F to 110°F (90 day strip chart)	\$7.90/rol
3500-LT-LF -30°F to 80°F (90 day strip chart)	\$7.90/rol
3500-LT-C 20°C to 40°C (90 day strip chart)	\$7.90/roll

NO. 3500 RECORDING THERMOGRAPH



DESCRIPTION

This temperature recording instrument employs as its sensing element a bimetallic strip. The bimetallic strip is a constant moment device comprising of two dissimilar metals whose coefficients of expansion when subjected to temperature changes produce a tendency to bend along the length of the element. This bending movement is constant, therefore, a linear output is produced which is calibrated in temperature to read over a 4.75 inch chart height. A Dual bimetallic strip is used in this instrument to provide pen stability and a rapid response time.

SPECIFICATIONS

ACCURACY	±1%
RANGE	110°F (adjustable between 40°F and +120°F)
STANDARD CHART DRIVE	Spring wound (176 hrs.) high quality movement with an 11 jeweled lever escapement.
STANDARD CHART SIZE	43/4" x 119/16", 2°F graduation
OPTIONAL CHART DRIVE	90 day strip chart, 11/2 VDC, 1/4 per hour feed rate
OPTIONAL CHART SIZE	4" height with 1 hour timing marks and 2°F graduations.
STANDARD INK SYSTEM	Stainless steel pot pen (approx 30 day capacity).
SIZE	13" long, 5 3/4" wide, 9 1/2" high
WEIGHT	9 lbs.

ORDERING INFORMATION

	NO. 3500 THERMOGRAPH 176 hour drum rotation) includes pen, ink and 100 charts	\$196.00 \$511.00	
	NO. 3500LT THERMOGRAPH (90 day strip chart) includes pen, ink and one roll of chart paper.		
1000	NO. 5025 BALANCED PRESSURE INKING SYSTEM	\$10.00	

CHARIS	W. C.
NO. 3500 WHF (7 day, +10°F to 120°F)	\$7.50/100
NO. 3500 WLF (7 day, -30°F to +80°F)	\$7.50/100
NO. 3500WC (7 day, -20°C to +40°C)	\$7.50/100
NO. 3500 -90 HF (90 day, +10°F to + 120°F)	\$7.90/roll
NO. 3500-90LF (90 day, -30°F to +80°F)	\$7.90/roll
NO. 3500-90C (90 day, -20°C to +40°C)	\$7.90/roll

NO. 2010 RECORDING HYGROGRAPH



DESCRIPTION

Hair hygrographs are used widely to measure relative humidity. This instrument utilizes a seven inch human hair element as its sensor. The element, under tension, changes in length depending on the moisture content of the surrounding air, this change is amplified through mechanical linkage and is traced on a 3½" high chart.

SPECIFICATIONS

20.80 ±1%	ACCURACY	± 3% between 15 and 90% a
110°F (adjustable between -40°F		± 5% at extremes
and +120°F)	RANGE	0-100% Relative Humidity
PRIVE Spring wound (176 hrs.) high quality movement with an 1 jeweled lever escapement.	STANDARD CHART DRIVE	Spring wound (176 hours) h quality movement with an jewel lever escapement
IZE 4 3/4" x 11 9/16", 2°F graduation	STANDARD CHART SIZE	3½" x 11 9/16". 2% R.H. graduations.
RIVE 90 day strip chart, 11/2 VDC, 1/4 per hour feed rate	" OPTIONAL CHART DRIVE	90 day strip chart, 11/2 VDC 1, per hour feed rate.
SIZE 4" height with 1 hour timin marks and 2°F graduations.	g OPTIONAL CHART SIZE	31/2" high with one hour time marks and 2% R.H. graduation
TEM Stainless steel pot pen (approx 30 day capacity).	STANDARD INK	Stainless steel pot pen nib (approximate 30 day capacity)
13" long, 5 3/4" wide, 9 1/2" high		13" long, 5 3/4" wide, 9" high

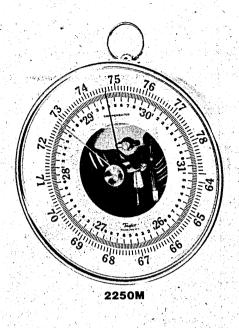
ORDERING INFORMATION

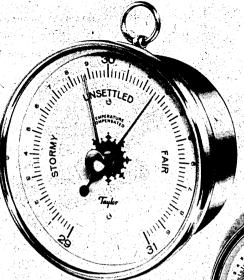
		100
	NO. 2010 RECORDING HYGROGRAPH (176 hour drum rotation, includes pen, ink and 100 charts.	\$195.0
	NO. 2010LT RECORDING HYGROGRAPH (90 day strip chart, pen; ink and one roll of chart paper.	
	NO. 5025 BALANCED PRESSURE INKING SYSTEM	\$10.0

CHARTS

WEIGHT

2.0	1. Company of the 12 of th	
NO. 2010C	(7 day, 0-100% Relative Humidity)	\$7.50/1
	LT (90 day, 0-100% Relative Humidity)	
Nach		*****





6204

1328



2237

2237 Brass Case Barometer

Navy type. Heavy spun brass case, 6¾" flange. Off-white 5" metal dial. Top quality compensated movement. Range 26-31", indicates actual pressure between 0-3500 ft. Boxed, Wt. 2 lbs. 2 ozs.

2237

2237M Metric 66.0-78.7 CM, 0-0160M ALL 2237MB Millibar, 850-1050MB \$140 2237C Range 23-29". Pressure 2000-6000 ft. EACH 2237CM Metric 58.4-73.6CM, 600-1830M 2237D Range 20-26" Pressure 4900-9500 ft.

2075 Engineer's Barometer

Chrome plated case; 3" dial reads to 6000 ft. in 20 ft. divisions. Leather carrying case. Boxed, Wt. 1 lb. 2 ozs.

2075C

2075CM Metric 58.4-73.6CM, 600-1830M AII 2075D Same, 10,000 ft. 50 ft. divisions 2075DM Metric 54.6-78.7CM, 0-3000M **EACH** 2075F Same; 16,000 ft. 50 ft. divisions

3132 Biram's Anemometer

For velocities 200 to 3000 feet per minute. Three dials reading to 10,000 feet. 4" diameter. Jeweled movement. Disconnector. Automatic zero set. In carrying case with correction chart. Boxed. Wt. 2 lbs. \$230

3132

2250 Open Face Brass Case Barometer

Best quality temperature compensated movement. Open faced, off-white 5" metal dial. Range 26-31", indicates actual pressure between 0-3500 ft. Boxed, Wt. 1 lb. 2

2250 2250M Metric 66.0-78.7,0-1060M ALL 2250MB Millibars, 850-1050 MB \$140 **2250CB** Name 23-29" Pressure 2000-6000 Ft. **2250CB** Metric 58.4-73.6 CM; 600-1830M **EACH** 2250D Range 20-26" Pressure 4900-9500 Ft.

6204 Brass Case Marine Barometer

Heavy brass case. White enameled dial. 54". Exclusive fast-acting UNI/MAG® movement, correctable to sea level, up to 10,000 ft. Boxed, Wt. 1 lb. 2 ozs.

6204M Same as 6204, with Inch and Metric dial, 740 \$60 to 785 millimeters

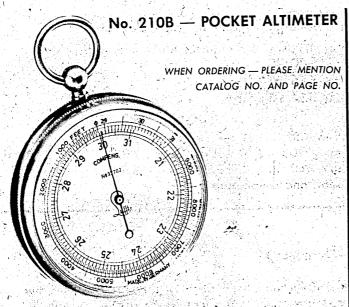
1328 Sling Psychrometer

Correct scientific method for relative humidity. Recessed 9" tubes in metal frame. Folding swivel handle. 20°-120° F, 1° divisions. Boxed with spare wicks and instructions. Wt. 1 lb.

2075D

F.O.B. Factory North Carolina

1328	\$28.00
1328C Range -5° to 50° C	\$32.00
1327 Range 30°-200° F, 1° Div.	\$32.50
1329 Range 25°-50° F. 1/10° Div.	\$36.00

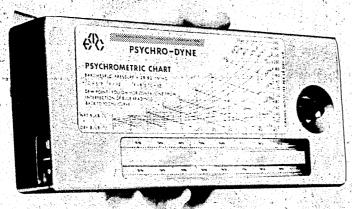


The ideal instrument for the outdoor man. Polished chrome watch type case and precision compensated mechanism. The dial is graduated with both the altitude and weather scale so that this instrument can be used as an altimeter and also as a weather barometer. For precision accuracy each instrument is supplied with a test certificate. Complete in plush lined leather carrying case. Overall diameter 2"

No. 210C — 0 to 12,000 ft. range — PRICE \$112.50 No. 210D — 0 to 16,000 ft. range — PRICE \$112.50

PSYCHRO-DYNE™

BATTERY OPERATED **PSYCHROMETER**



SPECIFICATIONS

Psychrometric Tables: +10°F to +140°F for relative humidity and dew point determination. -15°C to +44°C for relative humidity.

Motor Speed: 8,500 RPM. Current no load: 50 milliamperes. Type 4.5 volt, direct-current, permanent magnet.

Response Time: 1-1 ½ to 2 minutes:

Thermometers: (a) Length: 8 7/8". (b) Fahrenheit Range: 0 to 120 degrees. Graduations: whole degrees. Accuracy: +0.3 degrees over entire range. (c) Centigrade Range: -15 to +45 degrees. Graduations: half degrees. Accuracy: +0.2 degrees over entire range.

Slide Rules: +20° to 120°F or -7° to 49°C.

Battery Life: 1000 operations with three standard "D" cells.

Instrument Measurements: 10" long x 4 ½" wide x 2"

Carrying Case Measurements: 12 1/4" long x 6 1/4" wide x 3 1/8" high.

Weight: Including carrying case less batteries, 2 1/2 lbs.

Shipping Weight: 3 lbs.

MODELS & ACCESSORIES

No.	. 22010—Psychro-Dyne (°F—mercury)	\$79.00
No.	. 22012—Psychro-Dyne (°C—mercury)	80.00
	. 22014—Psycho-Dyne (°F—organic)	80.00
No.	. 800,14—Thermometer pair (°F—mercury)	14.00
	. 80017—Thermometer pair (°C—mercury)	14.00
No.	. 80018—Thermometer pair (°F—organic)	14.50
No.		okg. of, 2)
		okg. of 2)
No.	5. 80046 —Spare Parts Kit—12" of wicking	
	and 1- lamp 12.00 (p	okg. of 4)

ACCURATE—ECONOMICAL RH MEASUREMENT

The PSYCHRO-DYNE is a completely portable instrument which indicates wet and dry bulb temperatures for relative humidity and dew point determinations. The PSYCHRO-DYNI is designed and manufactured to rigid Weather Bureau and Navy specifications. It is completely self-contained in a high impact molded case. The unit consists of a pair of matched precision thermometers, a permanent magnet fan motor, c plastic water bottle, an illuminating lamp and an on-off con trol. Also provided with each PSYCHRO-DYNE are an instruc tion manual, a humidity-calculator slide rule and a spare parts kit consisting of extra wicking and a lamp bulb. The in strument and accessories are supplied in a rugged, high-im pact plastic carrying case.

OPERATION

The wet and dry bulb method of measuring moisture in the air is based on the evaporative cooling effect of the wet bulb The drier the air, the quicker the evaporation. This causes the wet bulb to depress in temperature until a balance take place between the cooling effect and the normal heat gain from the ambient condition.

The PSYCHRO-DYNE requires no whirling or special tech niques and may operate in confined areas. The operato adds water to the wick of the wet bulb, turns the fan on and allows aspiration to cause depression of the wet bulb temper ature to a constant reading (approximately 2-3 minutes From the wet and dry bulb readings the relative humidity ca be determined from the psychrometric chart on the in strument cover, the slide rule provided with the unit, or from the charts included in the instruction manual. Night time an dark space readings are facilitated by the illuminating ligh provided. Compared to conventional sling psychrometer this method is safer, more convenient and eliminates the usua high breakage rate of thermometers.

PAGE 14



Attached by three screws put through the flat glass bezel.

Thermometer for installation with dip shaft for fitting into wells.

Length of dipshaft: 4"\$40.20

10" \$46.60 20" \$54.15

Model #3047 3" dial

#3048 41/2" dial

Measuring range: -25 to +55°C

 $-10 \text{ to } + 130^{\circ}\text{F}$

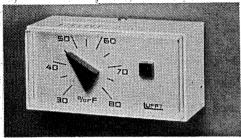
0 to +110°C

 $+30 \text{ to } +230^{\circ}\text{F}$

0 to +160°C

 $+30 \text{ to } + 320^{\circ}\text{F}$

Indicate length of dip shaft and temperature range.

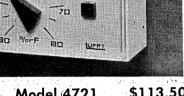


POWER

LINE

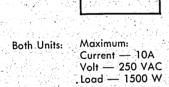
Lufft Room-Hygrostat

Turns Humidifiers or Dehumidifiers on or off at preset relative humidity levels. Switching differential approximately 3% relative humidity.



\$113.50 Model 4721

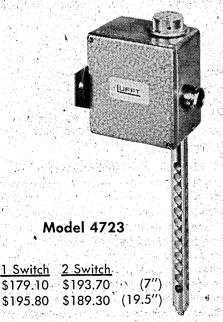




HYGROSTAT

Model 4720

\$105.80 with Cable & Switch



Dipshaft Hygrostat

Model 4723 Dipshaft Hygrostat can be used to turn humidifiers or dehumidifiers on or off. Can be used at temperatures up to 240°F. A protective mesh guard is available which is placed over the shaft when the air velocity in the measuring area exceeds 5 meters per second.

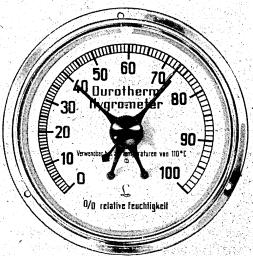
The instrument can be mounted either horizontally or vertically. It can also be inserted through a wall so that it is not necessary to enter a controlled room to change the setting. The diameter of the dipshaft is 5/8". Available with shaft of 7" or 19.5" in length.

Measuring Range: 10 to 95% Relative Humidity

Switch Differential: 3% Relative Humidity

F.O.B. Warehouse California

CONTACT HYGROMETERS



Our finest instruments. Have the same specifications as our popular model AB-167 except that these also have adjustable minimum and maximum switch contacts that close when the pointer hits the preselected values. The switch contacts have terminals on the rear of the instrument which can be wired through an appropriate relay to buzzers, alarms, lights, dehumidifiers or humidifiers. Note that the switch contacts can carry a maximum of 24 volts. For switching voltages of 110V or over, an appropriate relay must also be used. (See our RTV-15UI)

4703-600	Minimum Contact Only		\$99.50	Chrome Case	
\ 4703-60	Maximum Contact Only	<i>/</i>	\$99.50	Chrome Case	
4703-602	Max and Min Contacts.			Chrome Case	

Relay

110 Volt relay capable of handling 15 amps. 2" x 3" x 4". Sealed unit with accessible terminals. Use separate relays for maximum and minimum Cat. #RTV-15UI

F.O.B. Factory California

Psychrometer model 5021 for humidity control

Useful as a standard to calibrate our dial hygrometers.

Consisting of 2 mercury thermometers, stand, humidifying basin psychrometer

For humidity control in temperatures between 40° and 85° F

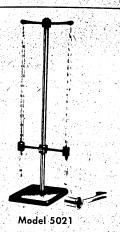
Thermometer range 32 to 120° F

Total height 400 mm

The instrument is easy to use. The dry and wet bulb thermometers are suspended on the stand and the wick on the right thermometer moistened by dipping it into the little container which should be filled with distilled water. The reading can be seen after 10 to 15 minutes when the wet bulb thermometer has reached its lowest evaporation value.

Putting these vales on the enclosed slide rule yields the relative humidity.

Please note: This instrument only works accurately when used in temperatures between 40° and 85° F andin quiet air (no draft or wind)

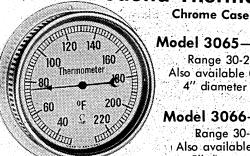


Model 4035-\$38.50

Range 0 to 100% Relative Humidity 4" diameter scale

> Model 4036-\$39.30 5" diameter scale

Sauna Thermometer



Model 3065-\$32.70

Range 30-230°F Also available 0-110°C 4" diameter scale

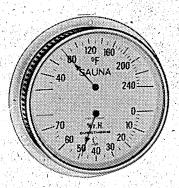
Model 3066-\$39.30

Range 30-230°F Also available 0-110°C" 5" diameter scale

Model 3065 Thermometer matches Model 4035 Hygrometer and Model 3066 Thermometer matches 4036 Hygrometer.

FOB Factory California

Sauna Hygrometer Chrome Case



Sauna Climatometer

Model 5030-\$64.50

We think this is the finest instrument ever made for installation in professional and home saunas. The brass finish is heavily chrome plated to resist atmospheric conditions that destroy less well made instruments. You will be pleased with the years of satisfaction that you can expect from the Saupa Climatometer.

PLEASE KIND FRIEND MARK ON YOUR ORDER CATALOG NO. AND PAGE NO.

MODEL 2013 REMOTE READING RELATIVE HUMIDITY SYSTEM

A system for the measurement of relative humidity from a remote location. A revolutionary new (non-organic) sensing unit is employed in the transducer. This 'Hygro-Tel' (Pat. Pending) sensing element is not subject to deterioration with age as are many organic type sensors. A ceramic filter completely surrounds the element to retard the accumulation of dust, grime, etc. which tend to degrade the accuracy of any type sensor.

The transducer and associated electronics can be utilized for telemetry, etc. The output is computer compatible.

Super saturation of the 'Hygro-Tel' sensing element has no adverse effect, on the accuracy of the system. Some electro chemical type sensors cannot accommodate humidities in the very high regions without future loss of accuracy in all ranges. The transducer housing is designed for outdoor installation, and no additional shelter

An output signal of ±100 Ua, into a 1000 ohm load is obtained as follows: 0 current at 50 % RH, -100 Ua at 0 % RH, + 100 Ua at 100 % RH (±0.1 volts). Temperature range is 35 to 120 degrees F.

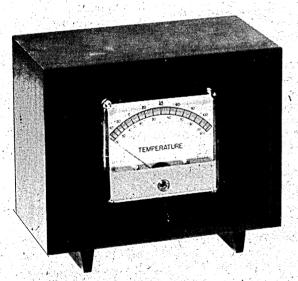
Input to system is 115 volts AC, 60 Hz. This input voltage is reduced, rectified, regulated and temperature compensated. This then supplies power to a 400 Hz inverter which in turn, energizes the primary of a linear differential transformer. The position of the core of this transformer is controlled by the Hygro-Tel sensing element.

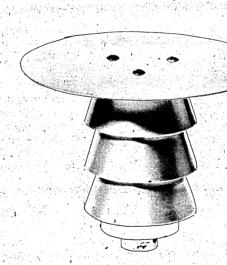
The output of the differential transformer is again rectified, and the resulting signal is applied to the read-out device.

Size — Transducer Housing: 3 ½" dia. x 9" high
Power Supply: 6 ½" wide, 4 ¾" deep, 3 ¼" high
READOUT AS SHOWN—

\$620°

MODEL 308 ELECTRIC TEMPERATURE SYSTEM





The electric temperature indicator reads temperature from remote locations. The sensing/element may be located up to several hundred feet away from the

The sensor is mounted in an aluminum shelter which is sun shaded and ventilated so that it can be located in any exposed position. Installation is thus simplified in

The console contains the readout meter as well as the electronics. A printed circuit board, containing the solid state regulated power supply and other components, that no additional sensor protection is required. is mounted directly on the meter terminals so that the entire unit can be removed in one piece. This allows for simplified remounting in another panel if desired. One hundred feet of two conductor plastic insulated connecting cable is normally supplied. This is a calibrated cable, hence it should not be either cut or spliced. If

a cable length of other than 100 feet is required, it should be so specified so that it can be factory calibrated before shipment. The system includes a solid state voltage regulated power supply, read out meter with a range of -50 to +125 degrees F., hand rubbed walnut console, sensing unit housed in an aluminum shelter, plus 100 feet of interconnecting cable.

Dimensions: Console 7" high, 6" wide, 4" deep Sensor 7" dia., 6" high Weight: Console 2# Sensor with cable 4#

Shipping weight complete-10# Power requirements: 115 volts, 60 cycle, AC. PRICE

F.O.B. Factory Texas

PLEASE KIND FRIEND MARK ON YOUR ORDER CATALOG NO.-AND PAGE NO.

PAGE 17

MONEY BACK GUARANTEE

We guarantee 100% absolute satisfaction — no ifs — no ands — no buts — order what you wish — try them free for 10 days — if not completely satisfied return them without any obligation for full credit or refund.

ON EVERY PRODUCT IN THIS CATALOG

No. IIB "BEZARD" FLUID COMPASS

The original "Bezard" compass, named after its inventor, Colonel Von Bezard. This compass consists of an aluminum case and revolving card. The needle and card have luminous markings. A mirror is attached to the case whose support bears another marking for correct reading of the graduation. The protective lid is provided with azimuth arrow and sighting slit. This improved model is liquid filled with transparent bottom which facilitates map reading. Supplied complete with leather case, carrying cord, and detailed instructions.

PRICE \$3950

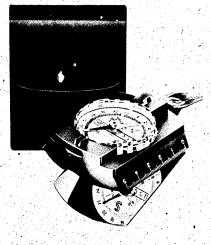




No. 11WB — "BEZARD" FLUID WRIST COMPASS

This is the famous "Bezard" Marching Compass made up into wrist compass. It is liquid filled with transparent bottom to factate map reading. This compass has an aluminum case and volving dial. The outer rim is graduated from 0 to 360 degrees 2 degree division. Compass dial and needle have luminous maings. This compass is waterproof and rustproof and can be us for skindiving. Overall diameter 21/4".

PRICE \$3000



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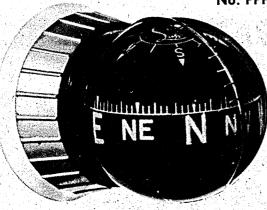
NO. M106B FLUID FIELD COMPASS

A highly accurate professional type instrument. This model has a black metal case with a jeweled pivot and luminous markings and fluid filled transparent capsule. A hinged mirror is fitted to the base and stops at the correct position for reading and provides exceptionally good light at night. The image of the compass dial in the mirror is a true image and not an inverted or mirror image which you get in most compasses of this type. The mirror can also be tilted fully back for using the compass on a map. This compass also has an adjustable declination indicator which may be set according to the local magnetic declination and it is then used instead of the north point on the dial. Supplied complete with leatherette case and detailed instructions. Size $3\frac{1}{2}$ " x $2\frac{3}{4}$ ".

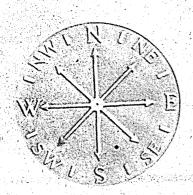
PRICE \$26.50

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No. PPPB — UNIVERSAL SPHERICAL FLUID COMPASS



The now world famous Lufft Automobile Compass that may also be used for boat, airplane and camping. This outstanding instrument consists of a free floating black compass ball with white markings set into a clear round plastic case 2" in diameter with suction cup mounting and chrome locking ring. The outer transparent case has inclination markings with each mark equaling 10° inclination thereby enabling the user to determine the rate of climb or descent of any hill or grade. The free floating compass ball enables the compass to be mounted at any angle on the windshield. An outstanding feature is that this compass does not require any compensation when properly installed in accordance with the instructions supplied with each instrument. This compass is completely vibration free, waterproof, rust proof and unaffected by heat or cold.



BRONZE COMPASS INDICATORS

These are two of the most popular models found in many beautiful gardens throughout the country. They are ordinarily set in a cement sidewalk, garden, or some other choice spot where they lend charm to their surroundings. These compass indicators are made in solid bronze and will last a lifetime. Each indicator is furnished with screws for fastening.

No. 151B — 8" Diameter — PRICE \$2950

No. 109B — 12" Diameter — PRICE \$7750

BRONZE SUN DIALS

Sun dials give approximate sun time (apparent time). They make a most attractive addition to the old fashioned garden or some such spot where the message conveyed on their faces may bring back pleasant memories. These sun dials are cast in solid bronze and they will last a lifetime. They are inscribed with Browning's tamous quotation, "Grow old along with me. The best is yet to be."

No. 934B - 71/2" Diameter - PRICE 3850

No. 979B — 11" Diameter — PRICE \$7750





No. 6103B AUTO ALTIMETER

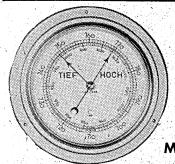
Smartly styled to make a worthy addition to any car be if luxury limousine, sports car, compact or hot-rod. This precision instrument has a temperature compensated mechanism which is set into a modern case with a black crackle finish. The 2 \%" diameter dialis jet black with white graduations and red indicator hand. The instrument stands 3 \\\ 2'' high with a strong pressure sensitive adjustable base that will adhere to any surface. The altitude range is from 0 to 12,000 feet with 100 foot divisions.

PRICE \$47.50

F.O.B. Warehouse California

THE FINEST

If you are looking for the top quality instruments, we recommend the ones shown on the following pages. There may be finer instruments made somewhere in the world than those produced under the trademark LUFFT—but if there are, we have not seen them.



MARINE BAROMETER

Marine Barometer, temperature compensated, brass or chrome case. 6" dia., overall

MODEL #2037

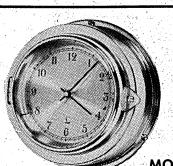
PRICE \$168.70

MARINE CLOCK

Marine Clock, 6" dia. overall, 8 day movement, Swiss precision anchor escapement, hinged glass, steam-tight.

PRICE \$226.60

MODEL #2038



MARINE CLOCK

Marine clock, 314" dia. scale, hinged glass with electro-movement, (battery 1.5 V). Chrome or brass.

MODEL #2132

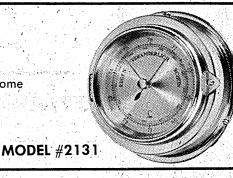
F.O.B. Warehouse California

PRICE \$95.80

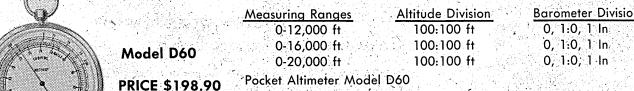
MARINE BAROMETER

Marine Barometer, 3¼" dia. scale, hinged glass, brass or chrome

PRICE \$65.60



ALTIMETER



Pocket Altimeter Model D60

Instrument with barometric division and outer adjustable altitud dial, movement temperature compensated. Complete with Test Certiicate and leather carrying case. Chrome case, 2" diameter.



ALTIMETER MODEL D255

Measuring Ranges	Altitude Division Barometer Division
0-3300 ft	15:15 ft 0, 025:0, 025 in
0-9500 ft	50:50 ft, , 0, 05:0, 05 in
0-16,000 ft	100:100 ft 0, 1:0, 1 in
0-26,000 ft	100:100 ft 0, 1:0, 1 in

Instrument with barometric division and outer adjustable altitude dial. Movement temperature compensated. Mercury thermometer on dial. Complete with maxima sling thermometer, Test Certificate and leather carrying case. Chrome case, 4" diameter.



\$415.00

\$120.80



Pocket Altimeter Model 200

 Measuring Ranges
 Altitude Division
 B

 0-12,000 ft
 100:100 ft

 0-16,000 ft
 100:100 ft

Barometer Division
0, 1:0, 1 in
0, 1:0, 1 in

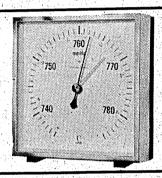
Instrument with barometric division and outer adjustable altitude dial. Complete with leather carrying case. Chrome case, 2" diameter.

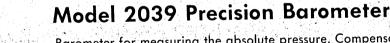
Model 2158 Barometer

Chrome case with white dial for use on wall or desk.

\$48.50

MODEL 2158

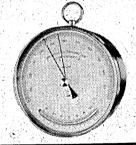




Barometer for measuring the absolute pressure. Compensated movement, division $\frac{1}{2}$ mm/Hg 705-815 mm = .27-32". Thermometer: 14 - 131°F.

MODEL 2039

\$337.40



Model 2040 Precision Barometer

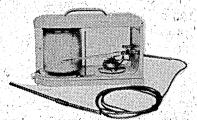
Precision Barometer for measuring the absolute pressure. Compensated movement. Division ½ mm Hg. Measuring Ranges 690-830 mm Hg. Normally for all altitudes up to 450 m.

\$324.90

MODEL 2040



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Model TF, Thermograph with Capillary Distance Tube

Metal case with full-view paneling. Best quality 8-day clockwork wound up by hand. Drum revolves once in 7 days on in 24 hours. Writing height of paper is 80 mm. Flexible capillary distance tube of normally 2 meters.

MODEL TF

Normal measuring range: +6...+120°F

→ - 20 + 43°C

\$729.00

PAGE 21

PLEASE KIND FRIEND MARK ON YOUR ORDER CATALOG NO. AND PAGE NO.

Special Thermo-Hygrometer for the Graphics Industry.

Measuring range: 20 to 100% Relative Humidity

 $+8 \text{ to } +40^{\circ}\text{C}$

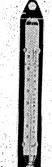
\$45.90

Available in German language only.

This Thermo-Hygrometer (with Durotherm Measuring element) clearly shows ideal temperature and ideal relative humidity. This is indicated by the intersection of the pointers in the green area, or for printing offices below the dotted line in the green area.



Model 5031



Polymeter Model 5001

The Polymeter indicates temperature, relative humidity, dew point, saturation pressure, vapor pressure, saturation deficit, absolute humidity.

Hygrometer: 0 to 100% rel. humidity

Thermometer: -30 to $+50^{\circ}$ C

 $-30 \text{ to } + 100^{\circ}\text{C}$

-10 to 120°F

MODEL 5001

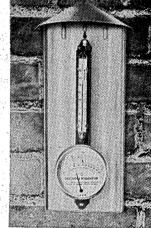
\$47.50



MODEL 0005

Protective case for Polymeter: \$35.40

For outdoor use, we suggest our protective metal case (full view on the instruments). The polymeter is protected against rain, etc.)





PLUVIOMETER according to Prof. Hellmann

Consists of collecting basin, lacquered in ivory color. 12" high, $4\frac{1}{2}$ " diameter, inclusive of lower unit.

Collecting area 100 cm², collecting funnel of sheet zinc with bracket of aluminium and graduated measuring glass with bottom for ice. Content of glass 250 cm³ equal to 25 mm of precipitation.

MODEL 0001

\$49.95



Weatherproof plastic housing in ivory color. Lead-back of markings by push-button. Available in Centigrade or Fahrenheit.

\$14.95

(Specify Centigrade or Fahrenheit)

MODEL 3904

