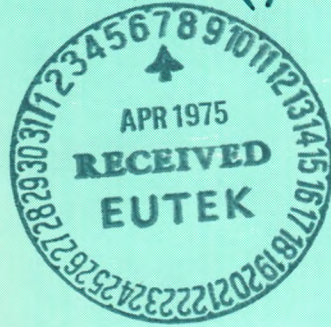


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WIND MVAS.



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 (916) 273-1391

OAKland → (415) 843/282



Professional
Weather
Instruments



CAT. NO. 375



Sierra Weather Instrument Corporation manufactures a quality line of instrumentation that is continually being expanded to meet your requirements. Our facility is located in Nevada City, California, approximately 60 miles north of Sacramento. Contact us for your custom instrument needs. Our staff welcomes the opportunity to quote on your special requirements.

ORDERING INFORMATION

Prices

All published prices are FOB Nevada City, California. Prices are subject to change without notice. California residents add 5% Sales tax. Quantity and resale discounts are available.

Shipping

Specify desired method of shipment. If not specified, we will ship by the least expensive method.

Terms

Net 30 days from date of invoice to accounts with satisfactory credit ratings.

Repairs/Returns

Contact us before returning any instrument for repairs or replacement. We will send an authorization which must be included with the returned instrument for proper handling.

Warranty

Products sold by Sierra Weather Instrument Corporation are warranted to the original purchaser to be free from defect in material and workmanship for a period of one year from date of shipment. Any defective item or items which become defective under normal or proper use during this period will be repaired or replaced at the option of Sierra Weather Instrument Corporation. Improper installation, misuse, modification or accidental damage may void the warranty.



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Telephone (916) 273-1391

(415) 843-1282

NO. 1000T PROPELLER ANEMOMETER



The Model 1000T Propeller Anemometer was developed to incorporate the rugged design characteristics of a propeller vane with modern design and construction methods.

Internal construction of this precision instrument is of 300 series stainless steel and all rotating members are supported on shielded stainless steel ball bearings. Outside construction is of fiber glass reinforced high density plastic and painted with a heavy coat of two part epoxy paint.

This unit can be furnished with a DC generator, an AC generator or a light emitting diode for wind speed and can be furnished with a 360° potentiometer, a 540° potentiometer or a synchroresolver for wind direction.

SPECIFICATIONS

SIZE	16 3/4" long by 19 15/16" high
PROPELLER	4 blades, 10" diameter, 31.16 sq. in. disc area.
STARTING SPEED	approximately 1 mph
RANGE	2 mph to 200 mph
WIND SPEED TRANSMITTER	AC Generator, DC Generator, or LED (24 slot disc which interrupts an infrared beam produced by a light emitting diode)
DISTANCE CONSTANT	Twelve feet
TIME CONSTANT (LAG)	0.2 seconds
WIND DIRECTION TRANSMITTER	360° Potentiometer, 540° Potentiometer, or Synchroresolver

ORDERING INFORMATION

Transmitter, Propeller Anemometer, Model 1000T

SPECIFY

DC Generator, AC Generator, light emitting diode for wind speed, 360° potentiometer, 540° potentiometer, or synchroresolver for wind direction, length of cable and type of readout.

Dual Channel Recorder for above

Model 1000R

Wind Speed and Wind Direction Indicator

Model 1000I

Additional Cable

1000C

Additional Chart Paper for 1000R Recorder

1000P

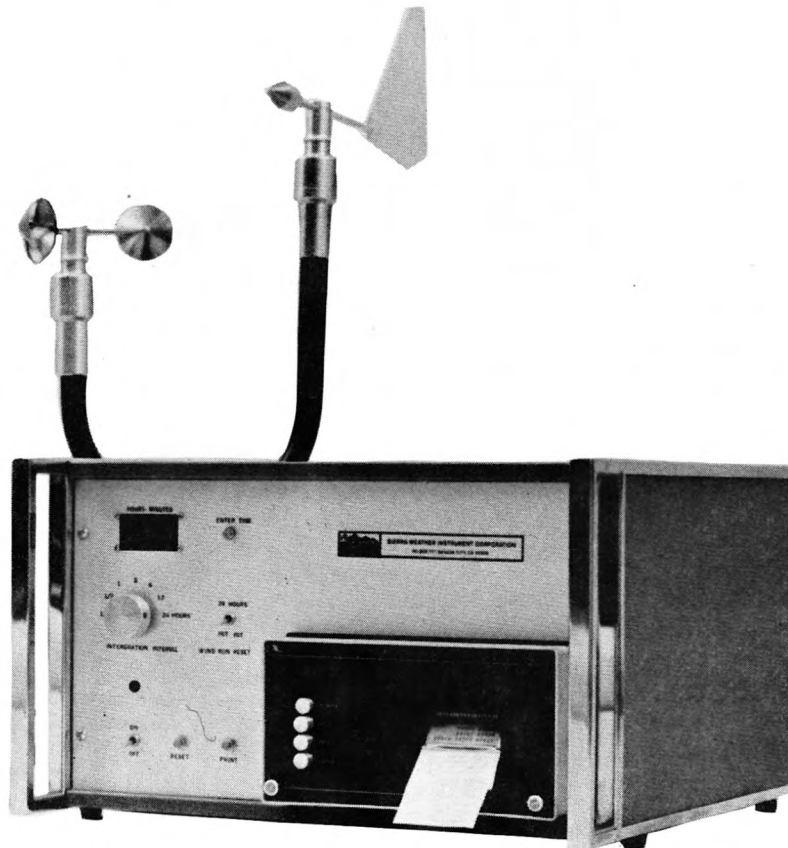
Mounting Tripod and ten foot mast

1000M10



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

**NO. 1066 DIGITAL WIND SECTOR
INTEGRATION SYSTEM**



The Model 1066 Digital Wind Sector Integration System is utilized for recording wind run and direction. The unit produces a paper tape printout of average wind run for a selectable time interval. The wind run data is subdivided into eight sectors (N, NE, E, SE, S, SW, W, NW). The printed output data includes time of day (in hours and minutes), total wind run, and wind run in each sector. Units are also available to accumulate and print other parameters such as temperature, humidity, pressure, water level, precipitation, etc.

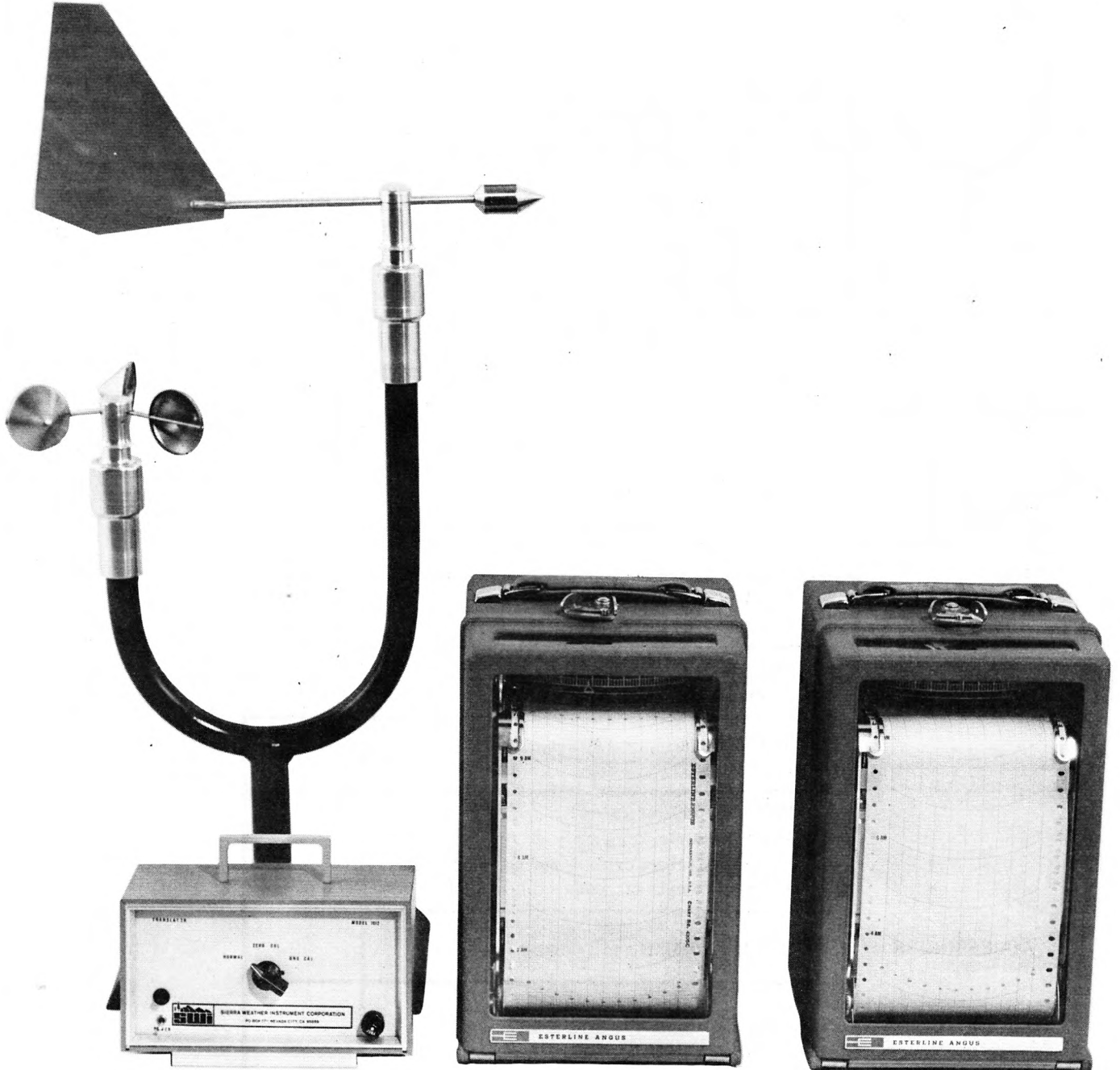
SPECIFICATIONS

Input Power	110/220 AC 60/50 Hz
Temperature Operating Range	0 to 50°C
Humidity Operating Range	20 to 90% Relative Humidity
Data Block Printout	Time in hours and minutes Total Wind Run eight sector words
Wind Run Dimension	Kilometers, Miles per hour
Time of Day	Hours and Minutes
Sampling Intervals	¼, ½, 1, 2, 3, 4, 6, 12, 24 hours
Size	18" x 12" x 8"
Weight	28 lbs.
Shipping Weight	35 lbs.



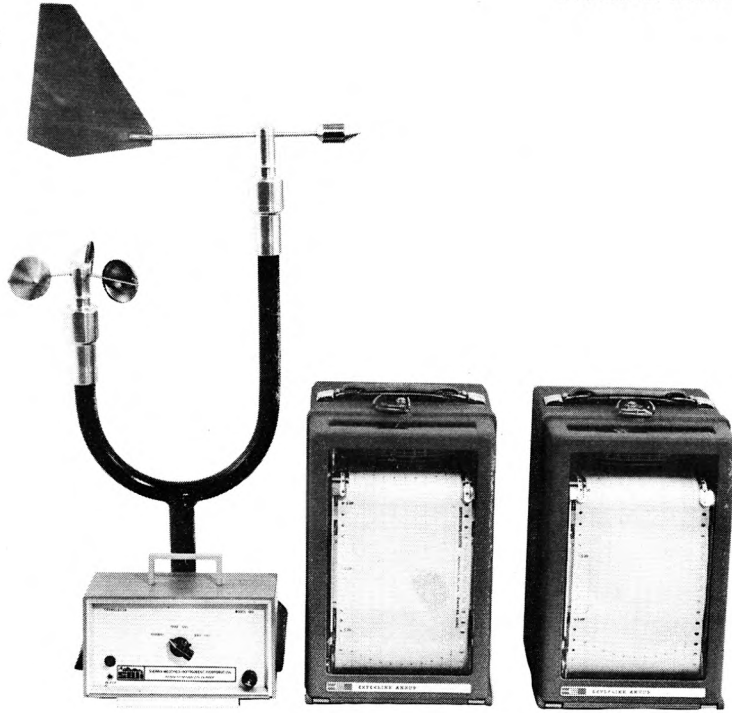
SIERRA WEATHER INSTRUMENT CORPORATION
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NO. 1001 WIND SYSTEMS



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959
Telephone (916) 273-1391

NO. 1001 WIND SYSTEM



The 1001 Wind System is a portable, reliable system capable of measuring wind speed and direction at extremely low levels yet rugged enough to provide many years of service.

The system consists of the No. 1005 cup anemometer, the 1010 Light Weight Vane, the 1012 Translator and two 6" strip chart recorders. Recorders shown are portable but can also be provided in panel mount models on special order. Spring wound or AC chart drives are available, standard chart speeds are 1½ in., 3 in., 6 in., per hour or minute, chart length is 103'.

Entire system can be operated by 12 volt battery or 110V AC power.

See individual sheets for specifications on the 1005 Anemometer, 1010 Vane, and 1012 Translator.

ORDERING INFORMATION

(Systems include Anemometer, Vane, Crossarm Assembly, Translator and 2 strip chart recorders. Accessories must be ordered separately.)

ACCESSORIES

NO. 1001-DC-360 (DC generator, 360° potentiometer)	
NO. 1001-DC-540 (DC generator, 540° potentiometer)	
NO. 1001-LED-360 (optical switch, 360° potentiometer)	
NO. 1001-LED-540 (optical switch, 540° potentiometer) (Specify AC chart drive or spring wound chart drive and length of connecting cable.)	
NO. 1000-M10 10' Mast and Tripod	
NO. 1000C CABLE (for hookup from sensors to translator)	



SIERRA WEATHER INSTRUMENT CORPORATION
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NO. 1005 LIGHT WEIGHT CUP ANEMOMETER



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 1005 LIGHT WEIGHT CUP ANEMOMETER



DESCRIPTION

The 1005 Light Weight Cup Anemometer is a high response low threshold unit which is designed to meet the most demanding meteorological requirements.

The anemometer is fabricated from aluminum and treated after machining to prevent corrosion on all exposed surfaces. The cups are fabricated from 300 series stainless steel hydroformed to insure a uniform material thickness and treated at the factory with a clear corrosion preventive. The bearings are stainless steel class seven bearings permanently lubricated and shielded. The connecting shaft and all internal parts are 300 series stainless steel.

In applications of high corrosion or in marine applications, this unit can be furnished completely fabricated from 304 stainless steel.

The 1005 Light Weight Cup Anemometer can be furnished with the following options:

SPECIFICATIONS

TRANSDUCERS

DC GENERATOR	
OUTPUT	500 MV at 1800 RPM
THRESHOLD	.1 MPH
DISTANCE CONSTANT	8 feet
OPTICAL SWITCH	
THRESHOLD	.6 MPH ✓
DISTANCE CONSTANT	8 feet
CUP ASSEMBLY	
DIAMETER	2 inches
TURNING RADIUS	2 1/2 inches
WEIGHT [PER CUP]	20 grams
MATERIAL	Stainless Steel
SIZE [OVERALL]	5 1/2" high x 7" diameter
WEIGHT	12 ounces
SHIPPING WEIGHT	5 lbs.

1. **1005-DC**—This unit consists of the basic 1005 Cup Anemometer with a **DC generator** with an internal resistance of 24 ohms and provides 500 mv output at 1800 RPM.

2. **1005-LED**—Consists of the 1005 Cup Anemometer with a **light emitting diode**. This unit is a frictionless low threshold anemometer utilizing an optical switch which consists of an **infra red light emitting diode** activating a phototransistor across an air gap. The light beam is mechanically interrupted 24 times per revolution. This device is a highly reliable contactless solid state, normally closed switch.

3. **1005-C1**—Basic 1005 Cup Anemometer with a mechanical gear reduction and a switch closure for every one mile of wind run. This unit utilizes a highly reliable reed switch and can be furnished with a totalizing counter that **will register 9999 miles**. Requires a 6VDC battery.

4. **1005-C60**—Identical to the Model 1005-C1 but will give a switch closure for every 1/60 mile of wind run.

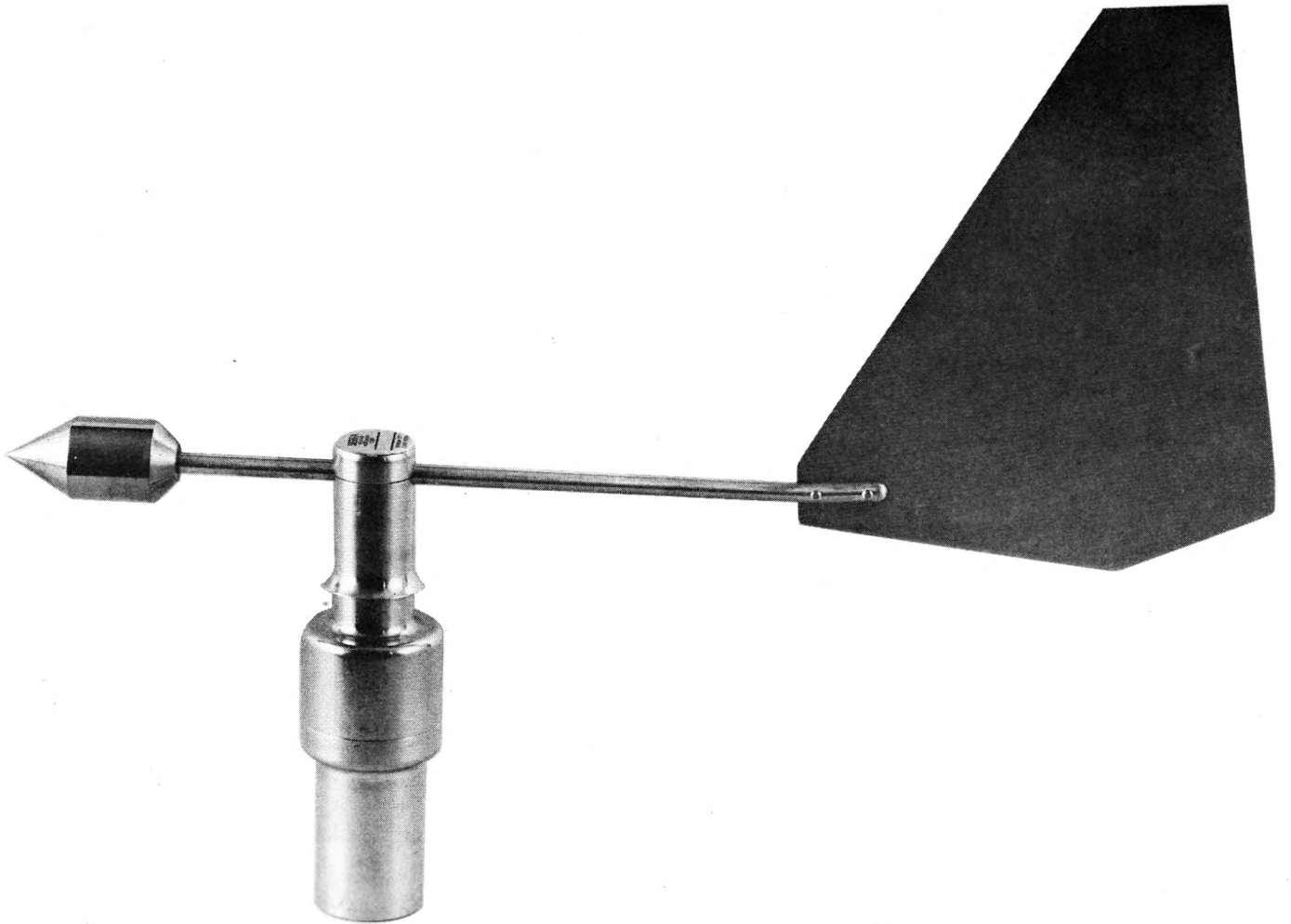
ORDERING INFORMATION

NO. 1005-DC—CUP ANEMOMETER with DC GENERATOR	NO. 1005C1—CUP ANEMOMETER SWITCH CLOSURE for every mile of wind run
NO. 1005-LED—CUP ANEMOMETER with OPTICAL SWITCH	NO. 1005-C60—CUP ANEMOMETER with SWITCH CLOSURE for every 1/60 mile of wind run



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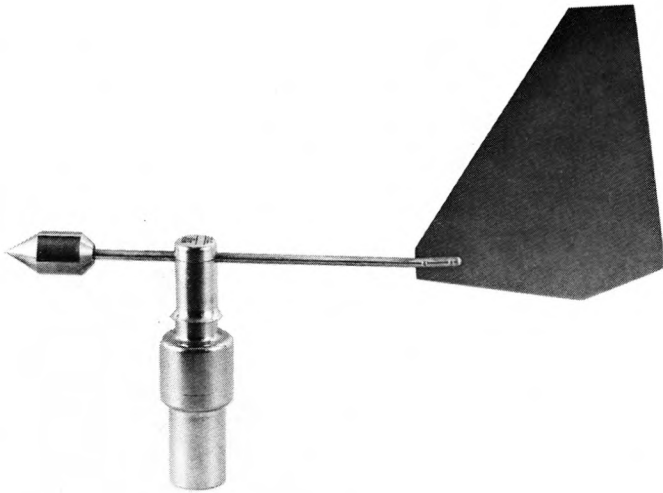
NO. 1010 LIGHT WEIGHT VANE



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 1010 LIGHT WEIGHT VANE

DESCRIPTION



The Model No. 1010 Light Weight Vane is constructed of anodized aluminum and treated at the factory to prevent corrosion. The unit is designed with the exposed surface of the vane above the body of the instrument to prevent turbulence and is sufficiently light in weight to maintain a direction overshoot of less than 14%.

The Vane is carefully balanced to maintain a distance constant of less than five feet of air and a damping ratio of less than .6. (The distance constant for a wind vane is defined by $Dv = TV$, where T is the time required to reach 63.2% of equilibrium direction and V is the free stream wind speed.)

The instrument is furnished standard with a 500 ohm low torque potentiometer, 0-360° or 0 to 540°.

The Model No. 1012 Translator is used with the instrument to interface with recording systems.

In applications of high corrosion, this unit can be furnished with a stainless steel body.

SPECIFICATIONS

ACCURACY	$\pm 2^\circ$
THRESHOLD	0.7 mph @10°
DISTANCE CONSTANT	4.8 feet of air
DAMPING RATIO	0.5
DEAD BAND	360° = 3° 540° = none
SIZE	15 inches long by 12 inches high
BEARINGS	Stainless steel class 7, shielded, that are permanently lubricated.
WEIGHT	1 lb.
SHIPPING WEIGHT	6 lbs.

ORDERING INFORMATION

NO. 1010-360 (with 360° potentiometer)	
NO. 1010-540 (with 540° potentiometer)	
NO. 1011 CROSSARM ASSEMBLY (for mounting No. 1005 cup anemometer and No. 1010 Vane).	



SIERRA WEATHER INSTRUMENT CORPORATION
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NO. 1012 WIND SYSTEM TRANSLATOR



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NO. 1012 WIND SYSTEM TRANSLATOR



DESCRIPTION

The Model No. 1012 Translator is a solid state unit which provides signal conditioning and scaling of sensor outputs from the Model 1000 heavy duty propellor type wind system, the No. 1005 Low Threshold Anemometer and No. 1010 Lightweight Vane. Inputs are translated to an analog current for driving recorders, etc. The anemometer channel has a pulse density discriminator detector for interfacing with an optical light chopper or A.C. Generator, or voltage scaler and low pass filter for D.C. Generator interface. Windspeed ranges of 0-50 mph, or 0-100 mph are selected via front panel switch. The wind direction channel interfaces with either a 360° or 540° potentiometer and provides filtering and scaling prior to the output.

The translator is powered by either 12 VDC or 110 VAC.

SPECIFICATIONS

POWER	+10 to +16 VDC @ 22 mA or 110 ± 10 VAC @ 48 to 62 Hz nominal.
SIGNAL INPUTS	
WIND DIRECTION	360° or 540°, 500 ohm potentiometer.
WIND SPEED	Frequency output of optical light chopper. DC Generator or AC Generator.
SIGNAL OUTPUTS	0-1mA standard, other ranges available on request.
ACCURACY	± .8% (-40°F to 140°F)
SIZE	8½" long, 5½" high, 5" deep
WEIGHT	4 lbs.
SHIPPING WEIGHT	7 lbs.

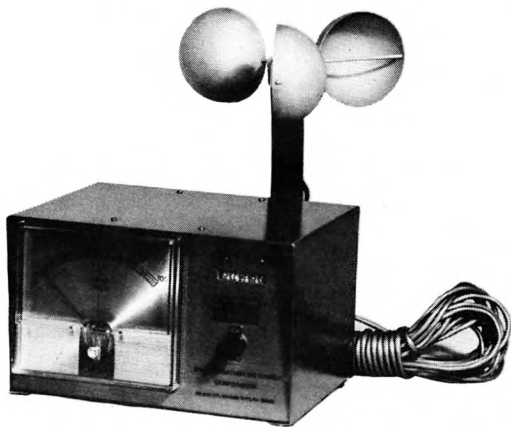
ORDERING INFORMATION

NO. 1012 WIND SYSTEM TRANSLATOR (DC Generator, 360° or 540° pot)	
NO. 1012 A WIND SYSTEM TRANSLATOR (Light chopper, 360° or 540° pot)	



SIERRA WEATHER INSTRUMENT CORPORATION
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**Model 1055
TOTALIZING ANEMOMETER**



This unique design incorporates a modern 12 volt DC operated solid state circuit in the readout device with the excellent starting speed and distant constant characteristics of the Model 1030 Anemometer. An additional advantage is that the readout device can be located in a remote or protected area.

The unit can provide a switch closure for every one mile, 1/60 mile, or 100 meters of wind run. It can also be calibrated in knots or kilometers.

The anemometer itself is fabricated from anodized aluminum and stainless steel with permanently lubricated ball bearings for support of all rotating members. The bearings and sensing element are protected from varied climatic extremes by a labyrinth seal. This anemometer is designed for mounting on 3/4" pipe or 1" diameter tube, or can be furnished with a mounting flange.

The readout device is housed in an aluminum case and is furnished with a 4" direct reading meter as well as a five digit counter. The anemometer and power connections are located on the back of the unit.

**NO. 1033 WIND SPEED, DIRECTION
AND TEMPERATURE SYSTEM**

Wind speed, temperature and wind direction are displayed on 4" panel meters mounted in a solid mahogany case making an attractive but functional instrument. Roof or tower mounted transmitter unit is supplied with 50' of color coded lead-in cable. The temperature probe is supplied with 20' of two conductor cable. Temperature range is -20 to +120°F. Unit operates on two "D" cell batteries (battery life approximately one year). Shipping weight 18 lbs.

No. 1033 WIND SPEED, DIRECTION AND TEMPERATURE SYSTEM

No. 1040M MOUNTING KIT (Contains adapters for easy mounting of transmitter unit on roof, TV antenna or side wall.)

No. 1040C ADDITIONAL LEAD-IN CABLE FOR WIND SPEED & DIRECTION TRANSMITTER.

No. 1040T ADDITIONAL LEAD-IN CABLE FOR TEMPERATURE SENSOR.

SPECIFICATIONS

ANEMOMETER

SENSOR	Three cup anemometer
CUP SIZE	3"
INSTRUMENT SIZE	8" turning diameter by 6½" high
STARTING SPEED	Approximately one mph
DISTANT CONSTANT	11½'
OUTPUT	.42 VDC at 10 mph (310 RPM)
CONSTRUCTION	Aluminum and stainless steel
CABLE	Furnished with 50' of two conductor cable

READOUT DEVICE

INSTRUMENT SIZE	5x8x6½" deep
READOUT	Five digit counter and direct reading 4" meter
POWER REQUIREMENT	12VDC
CONTACT CLOSURE	1 mile, 1/60 mile, or 100 meters of wind run
SHIPPING WEIGHT	10 lbs.

ORDERING INFORMATION

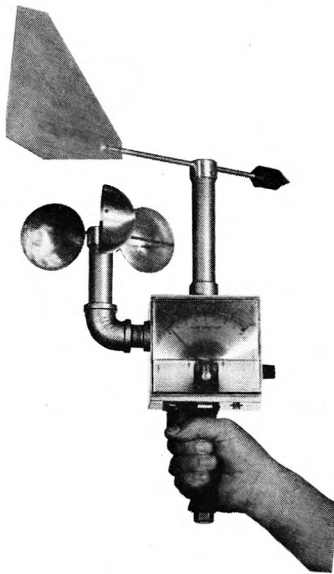
SPECIFY

Model 1055 Totalizing Anemometer complete with readout device	Readouts of 1 mph or 1/60 or 100 meters, length of cable and power requirements
Sensor without electronics	Model 1055S
Readout and totalizing device	Model 1055R



SIERRA WEATHER INSTRUMENT CORPORATION
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**Model 1039
HAND HELD WIND MEASURING SET**



The Hand Held Wind Measuring Set is designed for efficient operation under varied climatic extremes. Its rugged construction and modern solid state electronics design make this instrument ideally suited for accurate wind measurements in the field.

This instrument operates on two "D" cell batteries and is provided with a switch next to the pistol-grip handle for selecting the measurement to be indicated on the meter. The instrument is equipped with a DC generator for wind speed and a 360° potentiometer for wind direction.

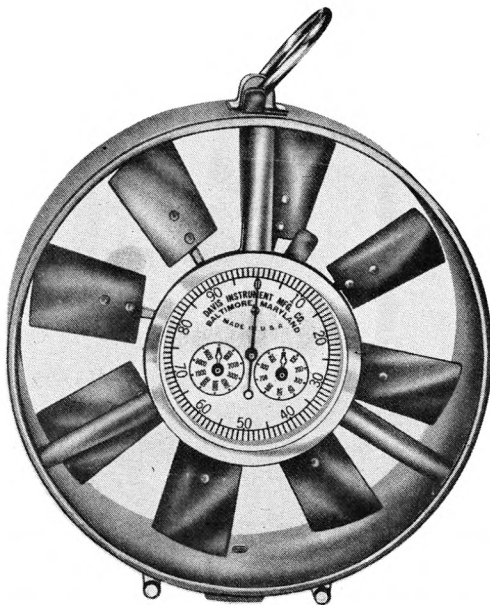
For field use the Hand Held Wind Measuring Set is provided with a heavy duty carrying case or can be mounted directly on the Sierra Weather Model 1000-M10 mast and tripod.

SPECIFICATIONS

STARTING SPEED	1 mph
ACCURACY	3% full scale
RANGE	0 to 100 mph
DISTANT CONSTANT	11'
WIND SPEED TRANSMITTER	DC Generator (.42 VDC at 10 mph)
WIND DIRECTION TRANSMITTER	360° Potentiometer
INSTRUMENT WEIGHT	3 lbs., 4 oz.
CASE WEIGHT	14 lbs., 12 oz.
SHIPPING WEIGHT	20 lbs.

ORDERING INFORMATION

	SPECIFY
Hand Held Wind Set Model 1039 complete with carrying case	Measurements in knots or miles per hour
Ten' mountng mast and tripod	Model 1039/MT
Carrying Case	Model 1039C



NO. 1050 AIR METER

The Model 1050 Birams-type Anemometer is used to measure the air speed or quantity of air passing through ducts, flues, fans, shafts, etc. This instrument consists of a sensitive balanced vane wheel which reacts by responding to air flow. Twisted vane arms, always a source of unreliability, have been abandoned and straight tubular spokes are securely fastened in an adjustable hub.

SPECIFICATIONS

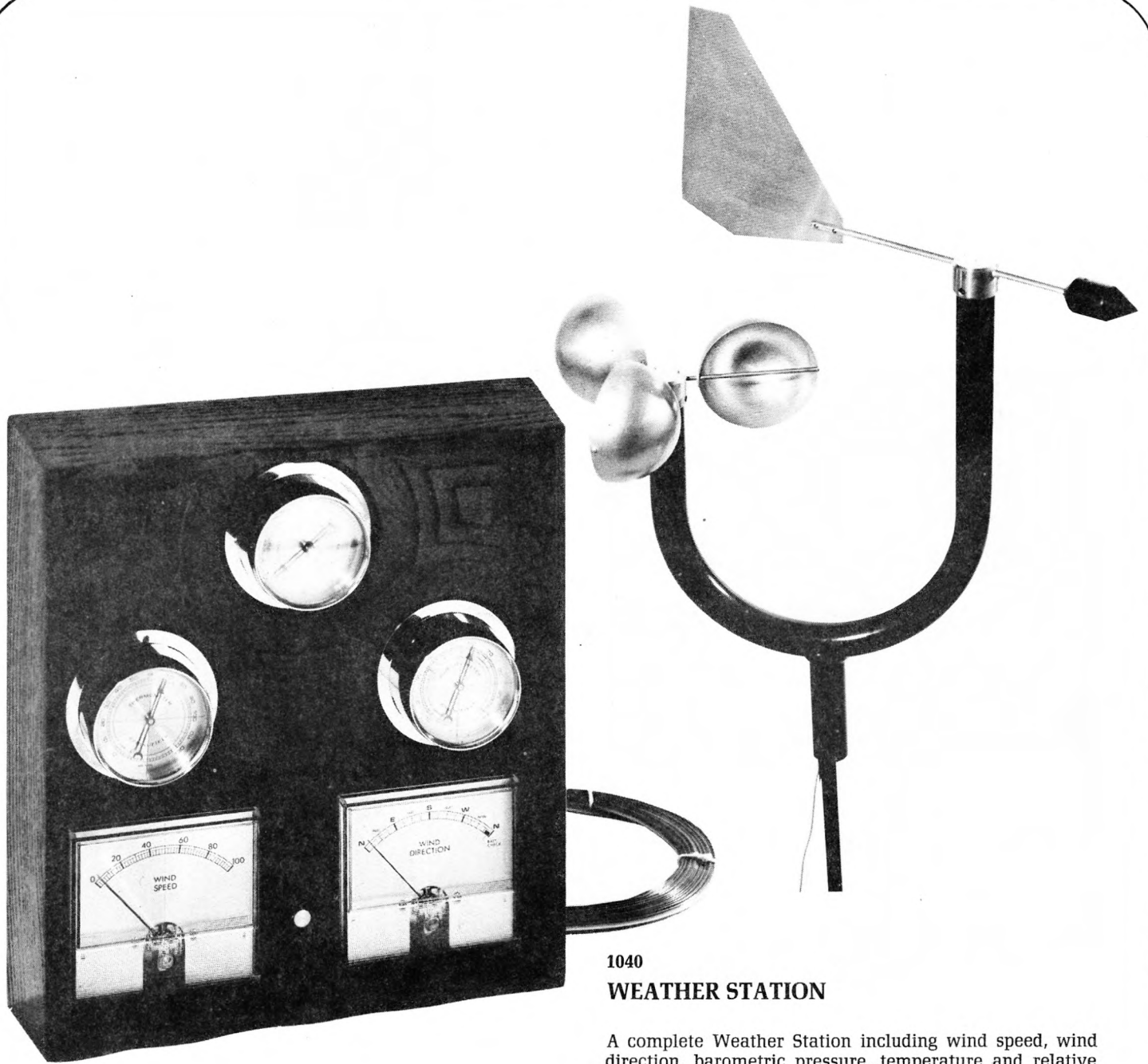
STARTING SPEED	Less than one-half mph
SENSOR	Eight lightweight vanes
SIZE	4" diameter

ORDERING INFORMATION

	SPECIFY
Air Meter, Model 1050	Model 1050
Case, Model 1050C	Aluminum, Brass or Leather
4" Shroud Rings, Model 1050S	Model 1050S
2" Extension Handles	Model 1050E



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**1040
WEATHER STATION**

A complete Weather Station including wind speed, wind direction, barometric pressure, temperature and relative humidity. The wall mounted display panel (14 $\frac{3}{4}$ x 13 $\frac{1}{2}$ ") is beautifully hand rubbed and walnut finished. Brass finished dials have spun aluminum faces. Roof mounted precision wind speed and direction transmitters are supplied with 50' of color coded lead-in cable. Unit is operated by two "D" cell batteries (battery life approximately 1 $\frac{1}{2}$ years.) This fine instrument will add distinction to any home or business. Shipping weight, 18 lbs.

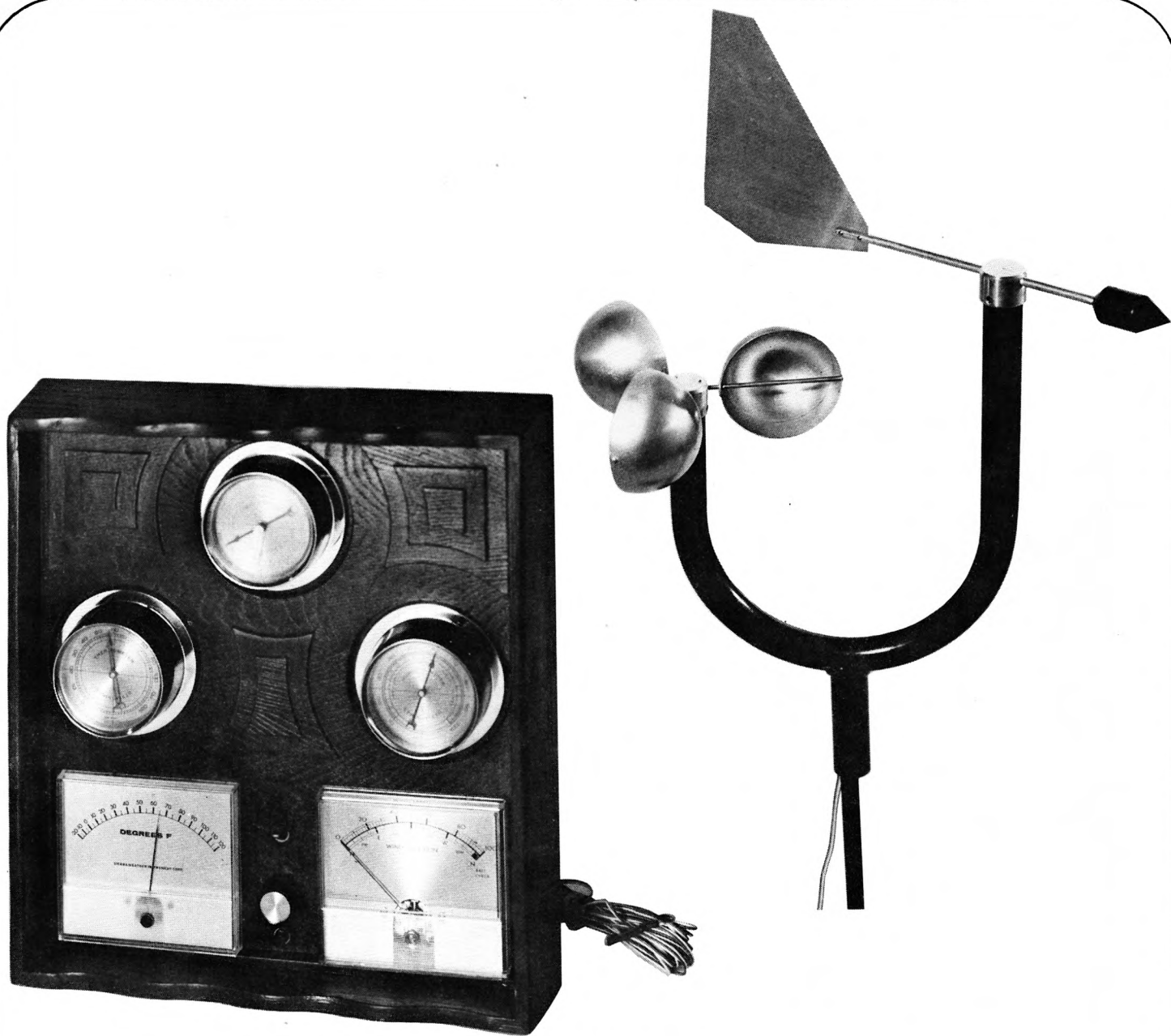
1040 WEATHER STATION — COMPLETE

1040M MOUNTING KIT (Contains adapters for easy mounting of transmitter unit on roof, TV antenna or side wall.)

1040C ADDITIONAL LEAD-IN CABLE



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1045 WEATHER STATION

This new weather station has all the features of the Model 1040 plus outdoor temperature that is displayed on a large 4" meter. The wind speed and wind direction measurements have been combined on the other 4" meter. Round dials are barometric pressure, relative humidity and indoor temperature. The wall mounted decorative display panel (14 $\frac{3}{4}$ x 13 $\frac{1}{2}$) is beautifully hand rubbed and walnut finished. Roof mounted precision wind speed and direction transmitters are supplied with 50' of color coded lead-in cable. Outdoor thermometer probe is supplied with 20' of cable. The unit is operated by two "D" cell batteries (battery life approximately one year). Shipping weight is 18 lbs.

1045 WEATHER STATION

1040M Mounting Kit (contains adapters for easy mounting of transmitter unit on roof, T.V. antenna or side wall).

1040C Additional lead in cable for wind speed and direction transmitter or outside temperature probe.



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1036

RECORDING WIND SYSTEM

A Recording Wind System used where a permanent record is required. The wind speed and wind direction traces are each recorded continuously on 2-5/16" wide pressure sensitive charts. Operates on 115v AC, 60HZ power. Roof or tower mounted transmitter unit supplied with 50' of color coded lead-in cable. Shipping weight, 22 lbs.

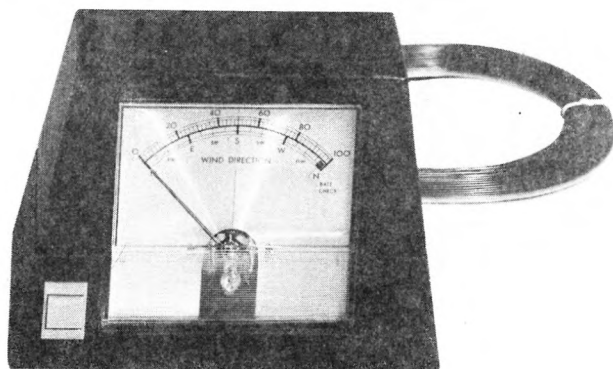
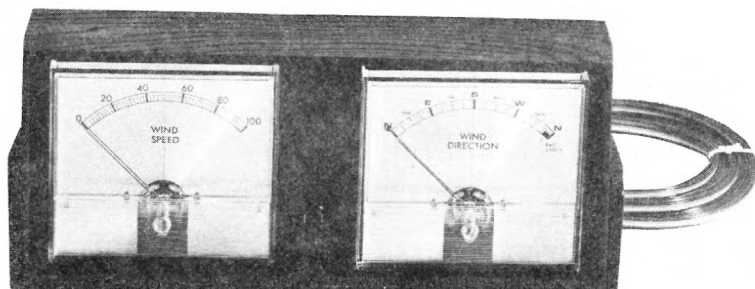
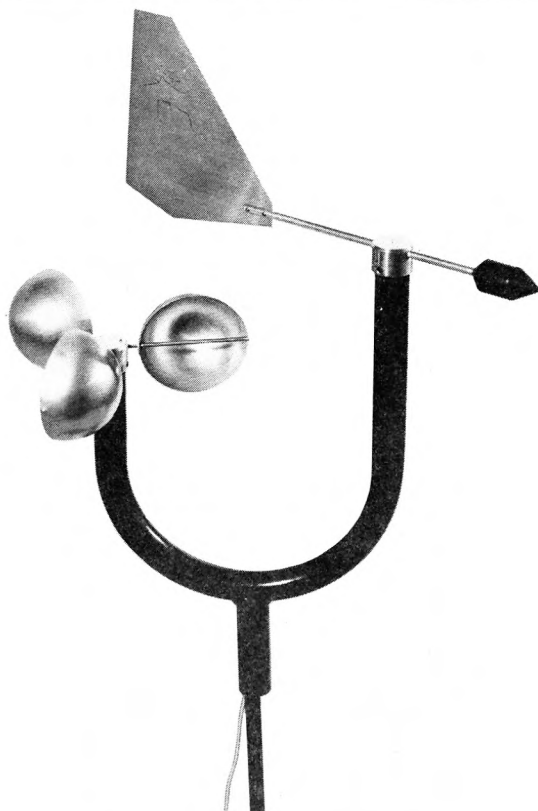
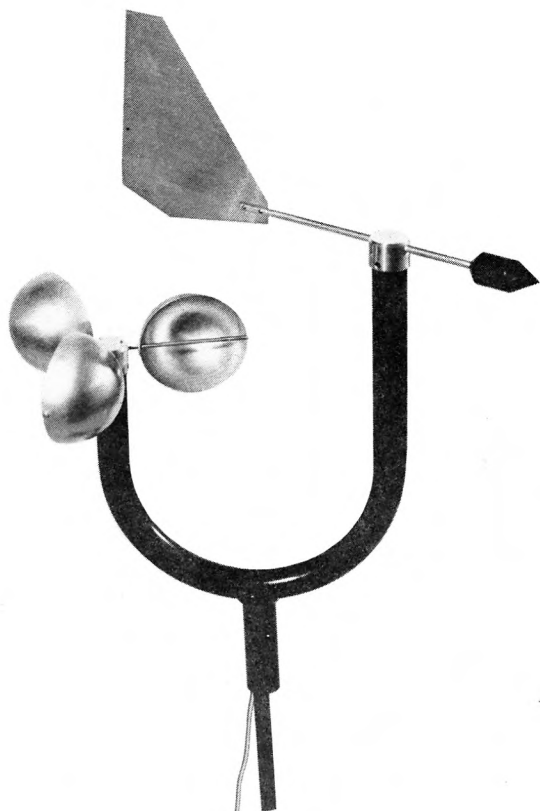
1036 RECORDING WIND SYSTEM

1040M MOUNTING KIT (Contains adapters for easy mounting of transmitter unit on roof, TV antenna or side wall.)

1040C ADDITIONAL LEAD-IN CABLE



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1032

WIND SPEED and DIRECTION SYSTEM

Wind speed and direction are displayed separately in this fine indicator. Large 4" meters have spun aluminum faces. The walnut finished unit is designed to be wall mounted or can be placed on a desk or shelf by using the special cradle provided. Roof or tower mounted transmitter unit is supplied with 50' of color coded lead-in cable. Entire unit is wind-tunnel calibrated for accuracy. Shipping weight, 15 lbs.

1032 WIND SPEED AND DIRECTION SYSTEM

1040M MOUNTING KIT (Contains adapters for easy mounting of transmitter unit on roof, TV antenna or side wall.)

1040C ADDITIONAL LEAD-IN CABLE

1038

WIND SPEED and DIRECTION SYSTEM

Superb styling of this combination wind speed and wind direction desk unit combined with low price make it an ideal gift for the man who has "everything". Wind speed or direction can be selectively read by operating a switch at the front of the wood grained walnut finished instrument. Roof or tower mounted transmitter unit is supplied with 50' of color coded lead-in cable. Wind-Tunnel calibrated for accuracy. Shipping weight, 15 lbs.

1038 WIND SPEED AND DIRECTION SYSTEM

1040M MOUNTING KIT (Contains adapters for easy mounting of transmitter unit on roof, TV antenna or side wall.)

1040C ADDITIONAL LEAD-IN-CABLE



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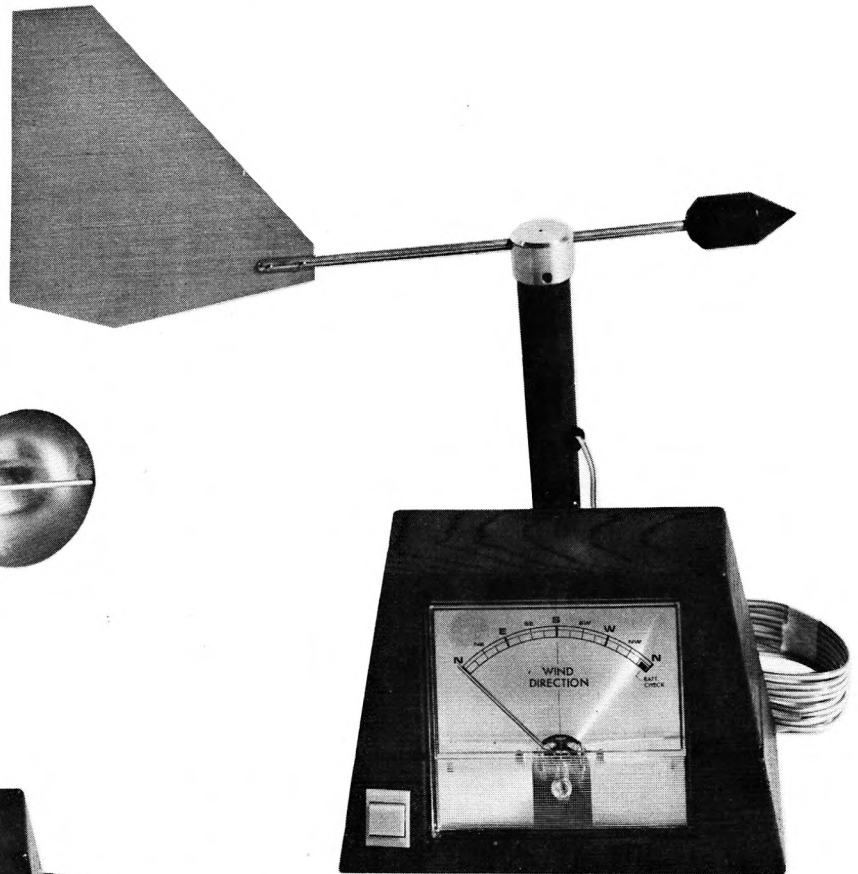
**1030
WIND SPEED SYSTEM**

This Wind Speed System employs the same quality components as Model Nos. 1040, 1032 and 1038 but is used where wind speed only measurements are desired. Shipping weight, 15 lbs.

1030 WIND SPEED SYSTEM

1040M MOUNTING KIT (Contains adapters for easy mounting of transmitter unit on roof, TV antenna or side wall.)

1040C ADDITIONAL LEAD-IN CABLE



**1035
WIND DIRECTION SYSTEM**

The Model 1035 Wind Direction Indicator is the same as the Model 1030 Wind Speed System but displays only Wind Direction. Shipping weight, 15 lbs.

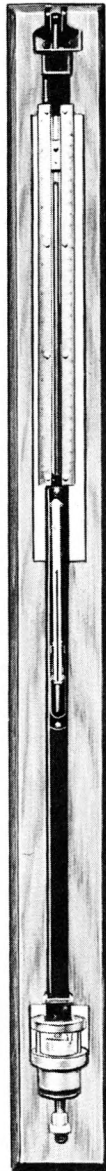
1035 WIND DIRECTION SYSTEM

1040M MOUNTING KIT (Contains adapters for easy mounting of transmitter unit on roof, TV antenna or side wall.)

1040C ADDITIONAL LEAD-IN CABLE



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1510 FULL-RANGE MERCURIAL BAROMETER

The Model No. 1510 full-range mercurial barometer for the laboratory or lecture room. The mercury column of this unique instrument is calibrated from 20 to 31 inches and from 508 to 790 mm., reading by vernier to 0.01 inch and 0.1 mm. These precise calibrations are traceable to the National Bureau of Standards. This barometer is completely assembled, with mercury in tube and reservoir, ready for use. Fortin type cistern allows mercury to expand and contract during shipment without admitting air to the tube. The entire mercury column down to the reservoir may be seen by rotating the protective brass channel. White plastic reflectors on mounting panel aid observations of cistern level and mercury column.

Other features include a double-scale, Centigrade - Fahrenheit thermometer, curved, stainless-steel inch and millimeter scales with vernier on same plane to avoid reflections and parallax, and full 360° rotation to take advantage of best light or to show mercury column and reservoir. This Full-Range Mercurial Barometer meets all specifications of the Purchase Guide for Programs in Science and Mathematics (No. 0305) prepared by the Council of Chief State School Officers. Shipped in one piece, ready to set up and read, with mounting panel, hanging bracket, centering ring and detailed instruction booklet with tables of temperature and gravity corrections. Shipping weight, 11 lbs.

1510 FULL-RANGE MERCURIAL BAROMETER



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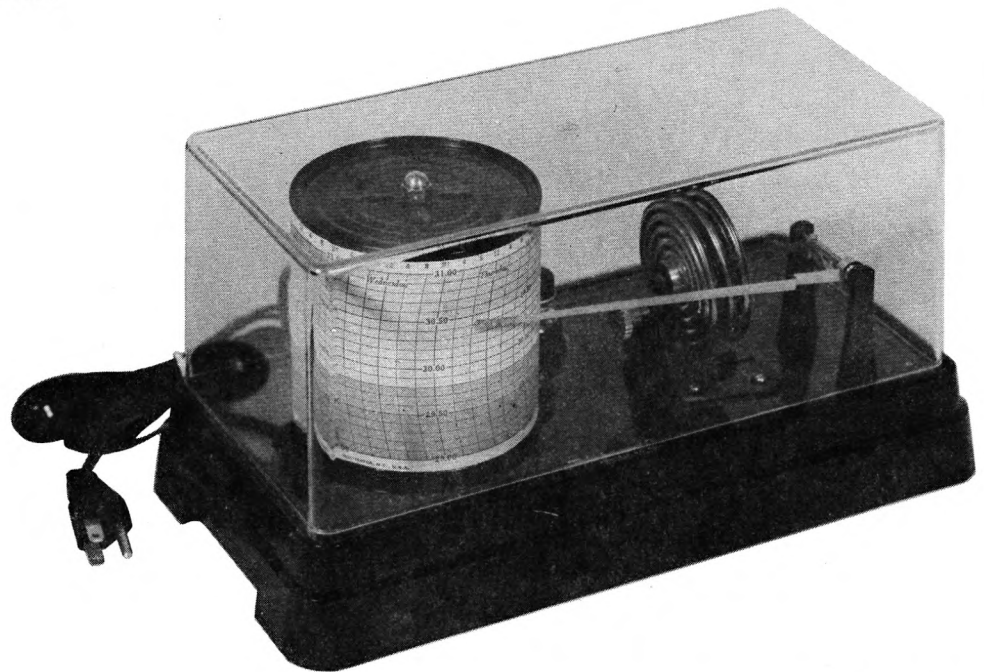


1515

BRASS CASE BAROMETER

A precision instrument featuring a visible polished mechanism with a 5" silvered metal dial with black graduations. The polished solid brass case flange is 6" in diameter. This unit matches Model No. 2020 Dial Hygrometer and Model No. 3529 Dial Thermometer. Shipping weight, 2 lbs.

1515 BRASS CASE BAROMETER



1501 WEATHER HAWK RECORDING BAROMETER

Records barometric pressure changes on 7-day chart, range 29-31 inches. Uni/Mag movement for maximum pen motion. 110 volt 60 cycle. Equipped with 3 prong plug. For altitudes 0-10,000 feet. Complete with one year's supply of 52 charts, ink and instructions. Shipping weight 5 lbs.

1501 Recording Barometer



SIERRA WEATHER INSTRUMENT CORPORATION
 P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391



5015

MARINE CLOCK

An excellent clock for the boating enthusiast, also suitable for office or den. The solid brass case is 5½" in diameter by 2¼" deep. Transistor movement runs one full year on regular "C" size flashlight battery. Shipping weight, 3 lbs.

5015 MARINE CLOCK



1518

AUTO ALTIMETER

Changes in elevation are indicated on this 3¾" auto altimeter. White case with "stick-on" mounting plate and multi-angle arm for easy positioning. For altitudes 0-14,000 feet. Shipping weight, 2 lbs.

1518 AUTO ALTIMETER



1519

MARINE COMPASS

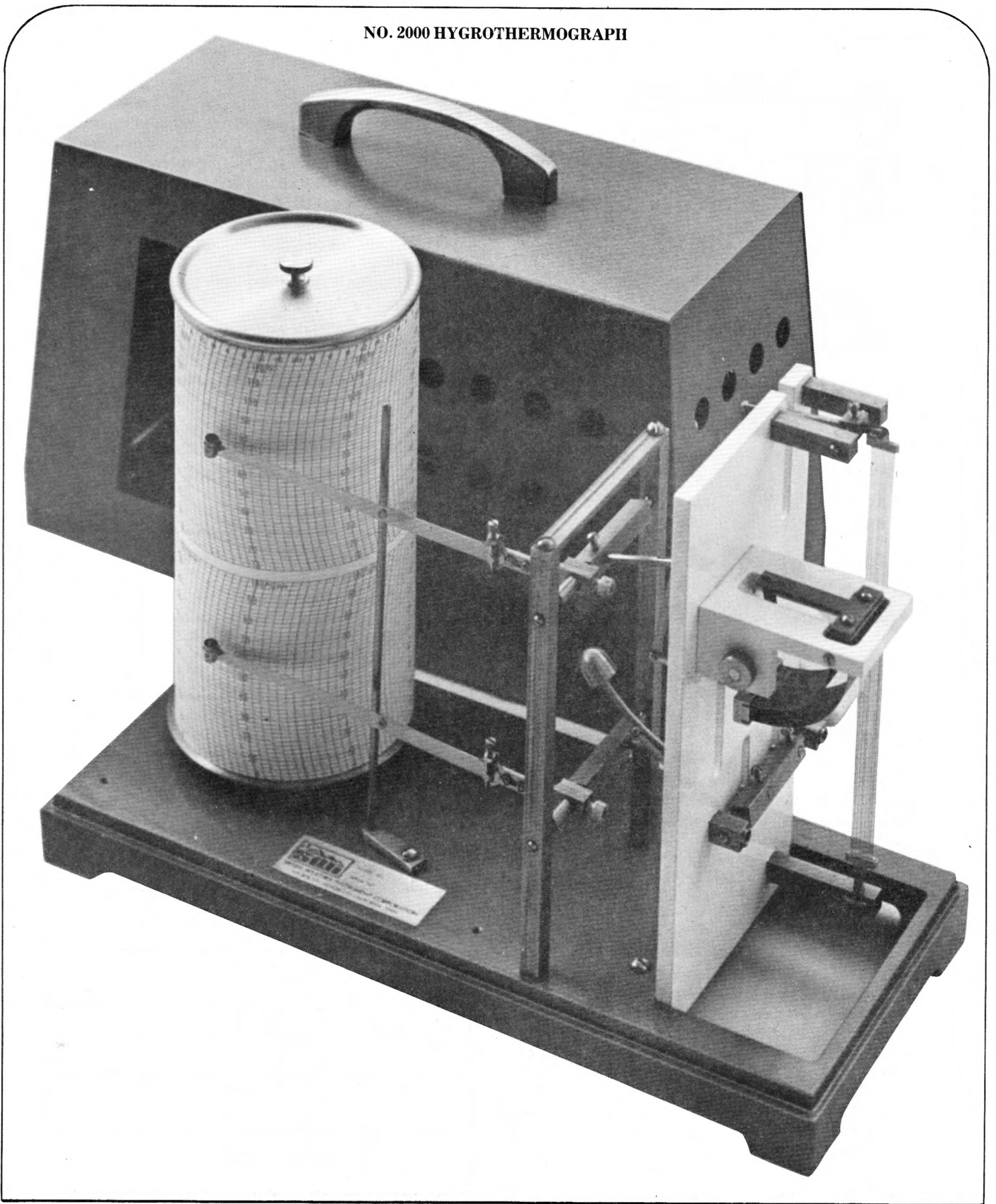
A beautiful Marine Compass with a 3¾" dome. Extended lubber line assures accurate readings. High viscosity fluid provides stability. Graduated in 5°. Jewel bearing. Illuminated. Black wrinkle finished metal case. Shipping weight, 3 lbs.

1519 MARINE COMPASS



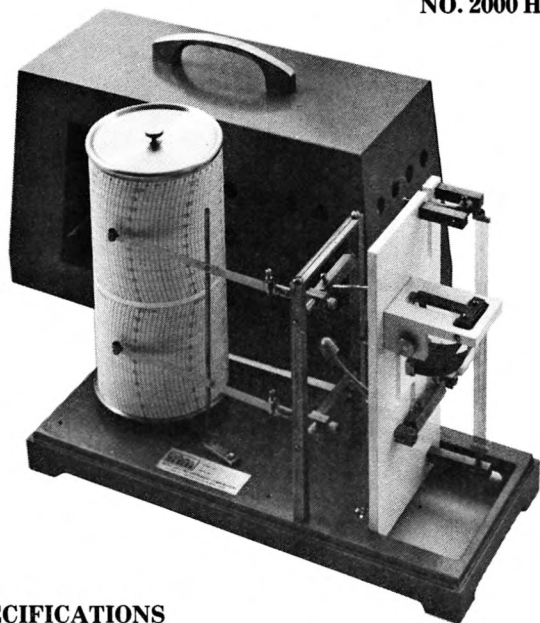
SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959
Telephone (916) 273-1391

NO. 2000 HYGROTHERMOGRAPH



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 2000 HYGROTHERMOGRAPH



DESCRIPTION

The Model 2000 Hygrothermograph is a combination of No. 3500 Recording Thermograph and No. 2010 Recording Hygrometer. This fine instrument provides a graphic recording of both temperature and humidity on one chart. The temperature sensor is a **dual** bimetallic strip and the humidity element is a **spread** human hair bundle. This instrument is available with seven day or 90 day recording capability.

All linkage and pivots are polished 300 Series stainless steel. The pivots operate in olive hole **jewel** bearings to reduce friction and maintain accuracy within the linkage system.

The base is cast from tenzaloy and the lid assembly is fabricated of cold rolled steel and painted hammertone green.

SPECIFICATIONS

TEMPERATURE

ACCURACY RANGE $\pm 1\%$
110°F span (adjustable between -40°F and +120°F)

HUMIDITY

ACCURACY $\pm 3\%$ between 15 and 90% and
 $\pm 5\%$ at extremes.

RANGE 0-100% relative humidity.

STANDARD CHART DRIVE 176 hour, spring wound high quality movement with an 11 jewel lever escapement.

STANDARD CHART SIZE 3 1/3" Temp, 3 1/3" humidity by 11 9/16" long.

OPTIONAL CHART DRIVE 90 day strip chart 1 1/2 VDC, 1/4"-hr. feed rate

OPTIONAL CHART SIZE 3 1/3" Temp, 3 1/3" humidity, one hour timing marks and 2°F graduations.

STANDARD INK SYSTEM Stainless Steel Pot pen (Approximately 30 day capacity)

OPTIONAL INK SYSTEM Balanced pressure type (capacity in excess of 90 days)

SIZE 13" long x 5 1/2" wide x 11 1/2" height

WEIGHT 11 lbs.

SHIPPING WEIGHT 13 lbs.

ORDERING INFORMATION

NO. 2000 HYGROTHERMOGRAPH (7 day drum rotation) includes pen, ink and 100 charts.	
NO. 2000 LT HYGROTHERMOGRAPH (90 day strip chart) includes pen, ink and one roll of chart paper.	
NO. 5025 BALANCED PRESSURE INKING SYSTEM	

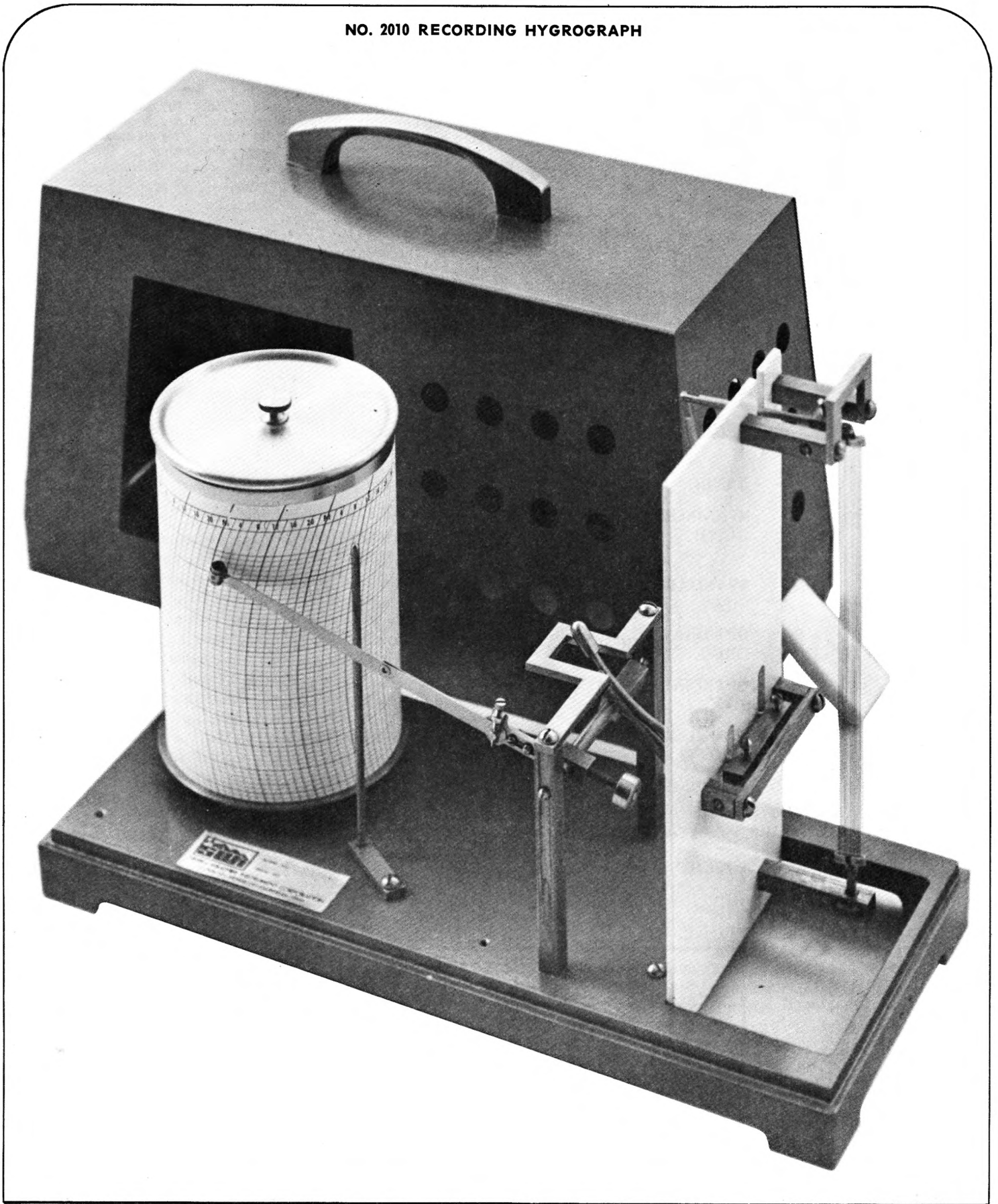
CHARTS

NO. 2000 WHF (7 day, 0-100%, +20 to +120°F)	
NO. 2000 WLF (7 day, 0-100%, -30 to +80°F)	
NO. 2000 WC (7 day, 0-100%, -20 to 40°C)	
NO. 2000 LT-HF (90 day strip chart) 0-100%, +20 to +120°F)	
NO. 2000 LT-LF (90 day strip chart) 0-100%, -30 to +80°F)	
NO. 2000 LT-C (90 day strip chart) 0-100%, -20 to +40°C)	



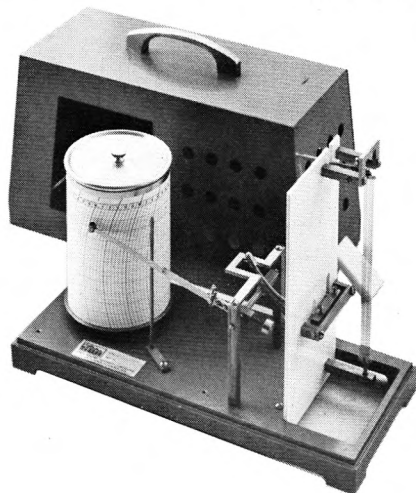
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NO. 2010 RECORDING HYGROGRAPH



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 2010 RECORDING HYGROGRAPH



DESCRIPTION

Hair hygrometers 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.

All linkage and pivot points are polished 300 series stainless steel. The pivots operate on olive hole **jewel bearings** to reduce friction and maintain accuracy within the linkage system.

The base is cast aged tenz alloy and the lid assembly is fabricated from cold rolled steel and painted hammertone green.

SPECIFICATIONS

ACCURACY	± 3% between 15 and 90% and ± 5% at extremes
RANGE	0-100% Relative Humidity
STANDARD CHART DRIVE	Spring wound (176 hours) high quality movement with an 11 jewel lever escapement
STANDARD CHART SIZE	3½" x 11 9/16". 2% R.H. graduations.
OPTIONAL CHART DRIVE	90 day strip chart, 1½ VDC 1/4" per hour feed rate.
OPTIONAL CHART SIZE	3½" high with one hour timing marks and 2% R.H. graduations.
STANDARD INK SYSTEM	Stainless steel pot pen nib (approximate 30 day capacity)
ALTERNATE INK SYSTEM	Balanced pressure type (capacity in excess of 90 days)
SIZE	13" long, 5 3/4" wide, 9" high
WEIGHT	9 lbs.
SHIPPING WEIGHT	16 lbs.

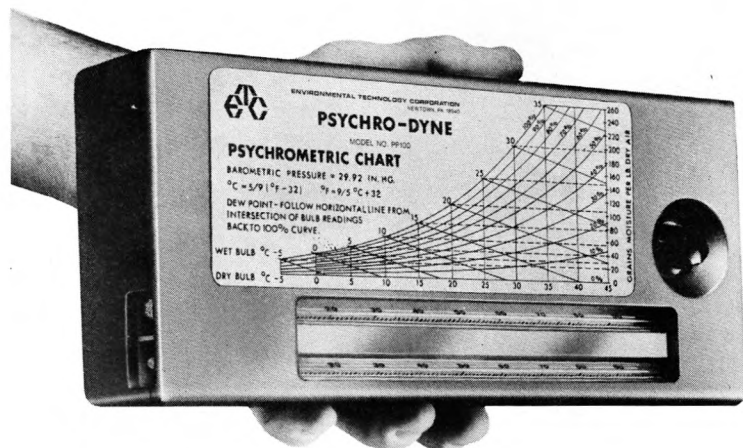
ORDERING INFORMATION

NO. 2010 RECORDING HYGROGRAPH (176 hour drum rotation, includes pen, ink and 100 charts.	
NO. 2010LT RECORDING HYGROGRAPH (90 day strip chart, pen, ink and one roll of chart paper.	
NO. 5025 BALANCED PRESSURE INKING SYSTEM	
NO. 2010C (7 day, 0-100% Relative Humidity) NO. 2010CLT (90 day, 0-100% Relative Humidity)	

CHARTS



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**NO. 2014 BATTERY
POWERED PSYCHROMETER**

This unit is a completely portable instrument which indicates wet and dry bulb temperatures for relative humidity and dew point temperatures. The instrument is designed to meet Weather Bureau Spec. No. 405.8113. Consists of a pair of matched precision thermometers, mercury filled, eight inches in length, a permanent magnet fan motor, a plastic water bottle with a 2 oz. capacity, and an illuminating lamp. The unit operates on three "D" cells with a battery life of 1000 operations. Also provided with this unit are an instruction manual, a humidity calculator, slide rule and a spare parts kit consisting of extra wicking and a lamp bulb. The instrument and accessories are supplied in a rugged high impact plastic carrying case.

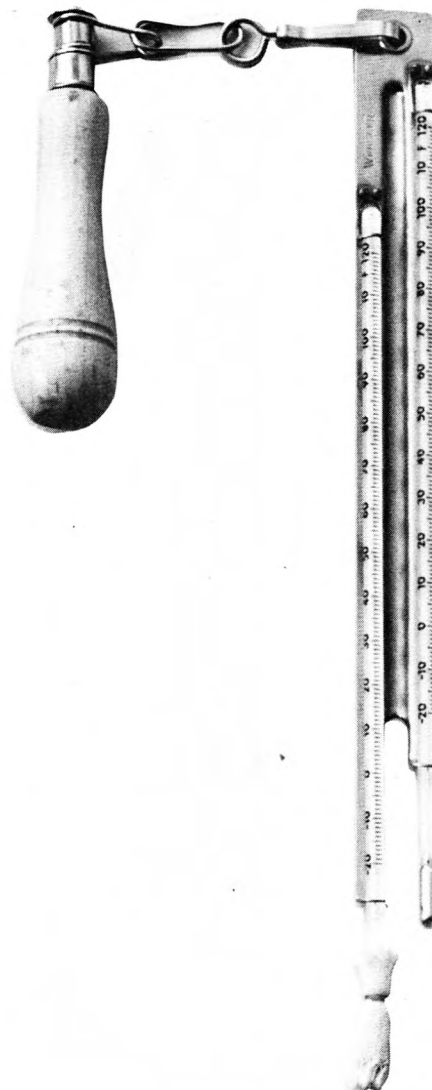
Shipping Weight 3 lbs.

NO. 2014 Battery Operated Psychrometer, 0° to 120°F

NO. 2014C Battery Operated Psychrometer, -15° to 45°C

NO. 2014TF Spare Thermometer Tubes, 0° to 120°F

NO. 2014TC Spare Thermometer Tubes, -15° to 45°C



**NO. 2015 SLING PSYCHROMETER
[WEATHER BUREAU TYPE]**

The Sling Psychrometer is a compact convenient and durable instrument for determining relative humidity quickly and accurately. U.S. Weather Bureau type heavy gauge rigid stainless steel frame holds two matched, precision 9 1/2" etched stem thermometers. Staggered bulb position prevents moisture from influencing dry bulb measurement. Thermometer range is -20° to 120°F with an accuracy of 0.5°F.

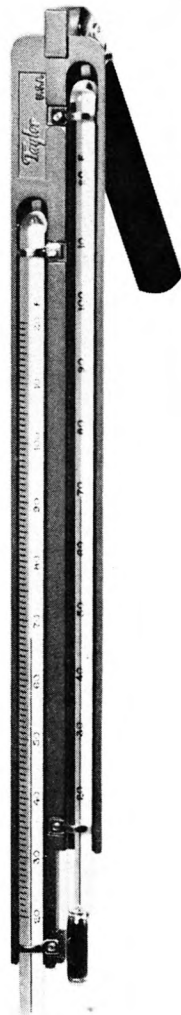
Shipping Weight 1 lb.

NO. 2015 Sling Psychrometer

NO. 2015A Replacement Thermometer



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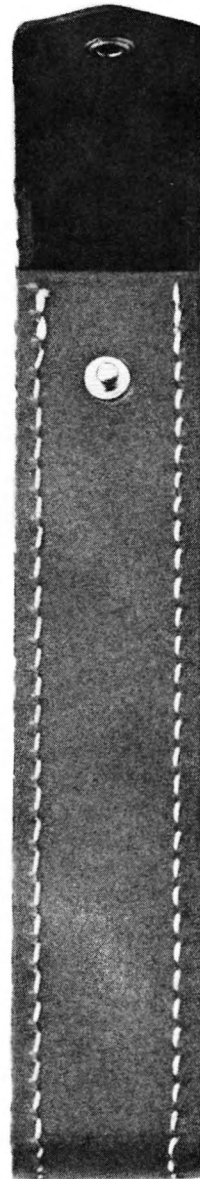
NO. 2016 SLING PSYCHROMETER

The correct scientific method for determining relative humidity is employed by this sling psychrometer. Recessed 9" thermometer tubes are in a metal frame with a folding swivel handle. Range: 20° to 120°F, 1° divisions. Other ranges available on request. Complete with spare wicks and instructions.

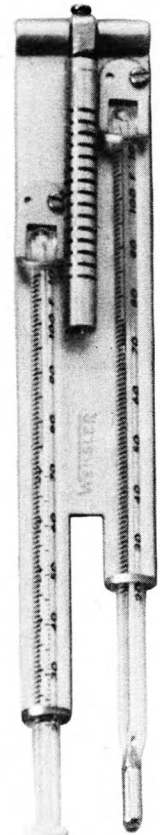
Shipping Weight 2 lbs.

NO. 2016 Sling Psychrometer

NO. 2016A Spare Thermometer Tube



NO. 2017 POCKET SLING PSYCHROMETER



No. 2017 Pocket Type Sling Psychrometer is furnished with two 5" length mercury filled etched-stem thermometers attached to a metal back with handle for whirling. The handle folds out of the way when not in use. This unit is supplied with humidity tables, wick and pocket case. The range of this psychrometer is 20° to 110°F in 1° divisions.

Shipping Weight 12 oz.

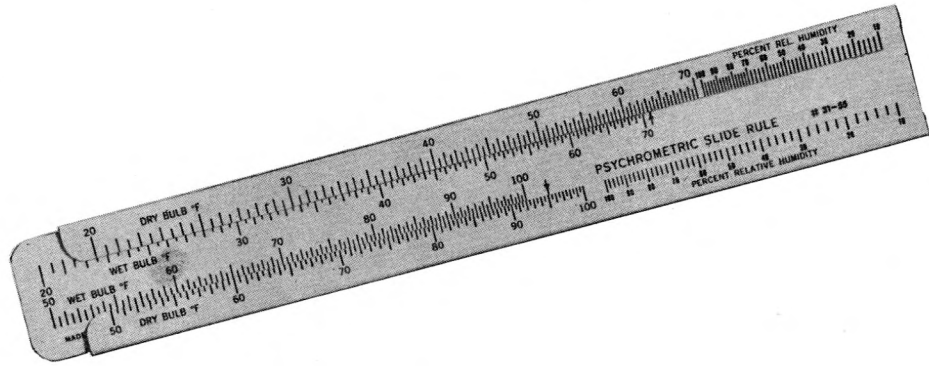
NO. 2017 Pocket Sling Psychrometer

NO. 2017 Replacement Thermometer

NO. 2017 Extra Wicks (package of 12)



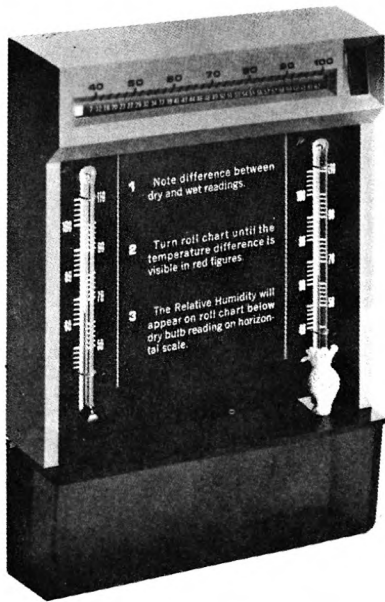
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**2018
PSYCHROMETRIC SLIDE RULE**

Plastic, pocket-type slide rule for use with sling psychrometer. Accurate relative humidity is quickly determined from readings taken from the wet and dry bulbs of the sling psychrometers. Shipping weight, 1 lb.

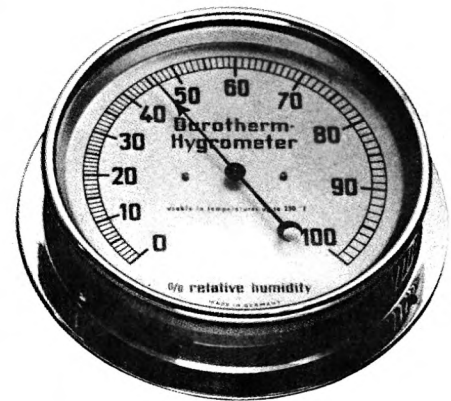
2018 PSYCHROMETRIC SLIDE RULE



**2021
HYGROMETER**

Wall type humidity instrument for home and office. Green case with black insert. Red filled thermometers with range of 40° to 100°F. Self-contained water cistern. Dial humidity table. Packaged with spare wick. Shipping weight, 2 lbs.

- 2021 COMFORTGUIDE HYGROMETER**
- 2021A SPARE TUBE & SCALE**



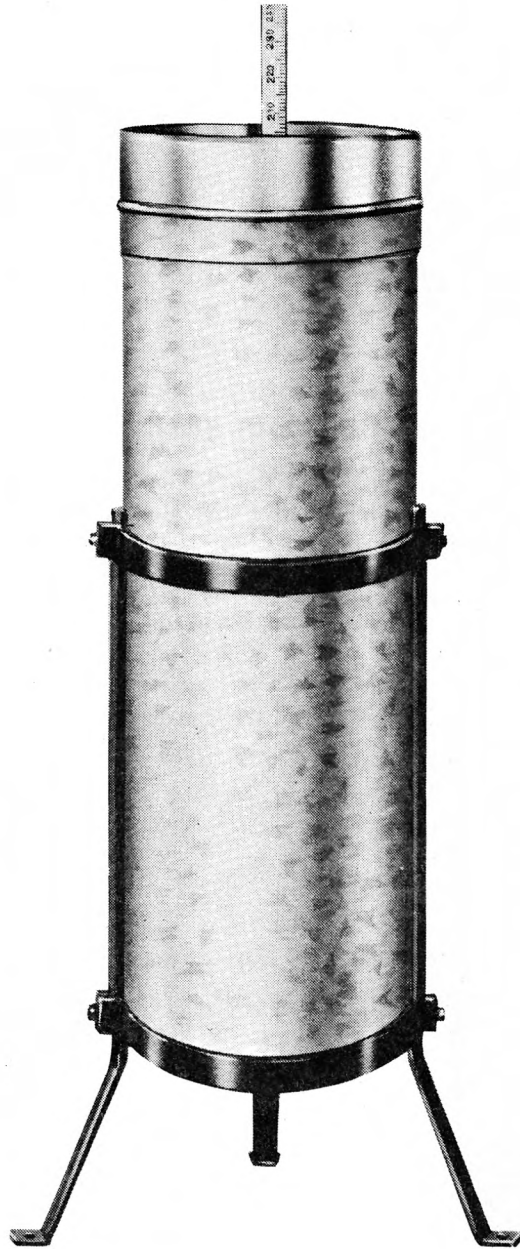
**2020
DIAL HYGROMETER**

A highly precision instrument used to obtain humidity readings within 2%. The large 5" silvered dial has black graduations and is set into a polished brass case with a 6" diameter mounting flange. Relative humidity range from 0 to 100% in 1% graduations. Matches No. 1515 Barometer and No. 3529 Dial Thermometer. Shipping weight, 2 lbs.

2020 DIAL HYGROMETER



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No. 2510 U.S. WEATHER BUREAU RAIN AND SNOW GAUGE

The upper portion of the funnel is cylindrical in shape, made of brass, and is turned to a knife edge. Rainwater falling into the funnel is delivered through an aperture into the brass "receiver." The ratio of the area of the knife edge circle to the cross sectional area of the receiver is as 10 to 1, so that 1" of rainfall delivers 10" of water to the receiver. The capacity of the receiver is 2" of rainfall, and any excess overflows into the outer chamber where it can be measured after the quantity in the receiver has been removed.

When used as a snow gauge, the receiver and funnel are detached and the snowfall is measured directly. Furnished with cedar measuring stick.

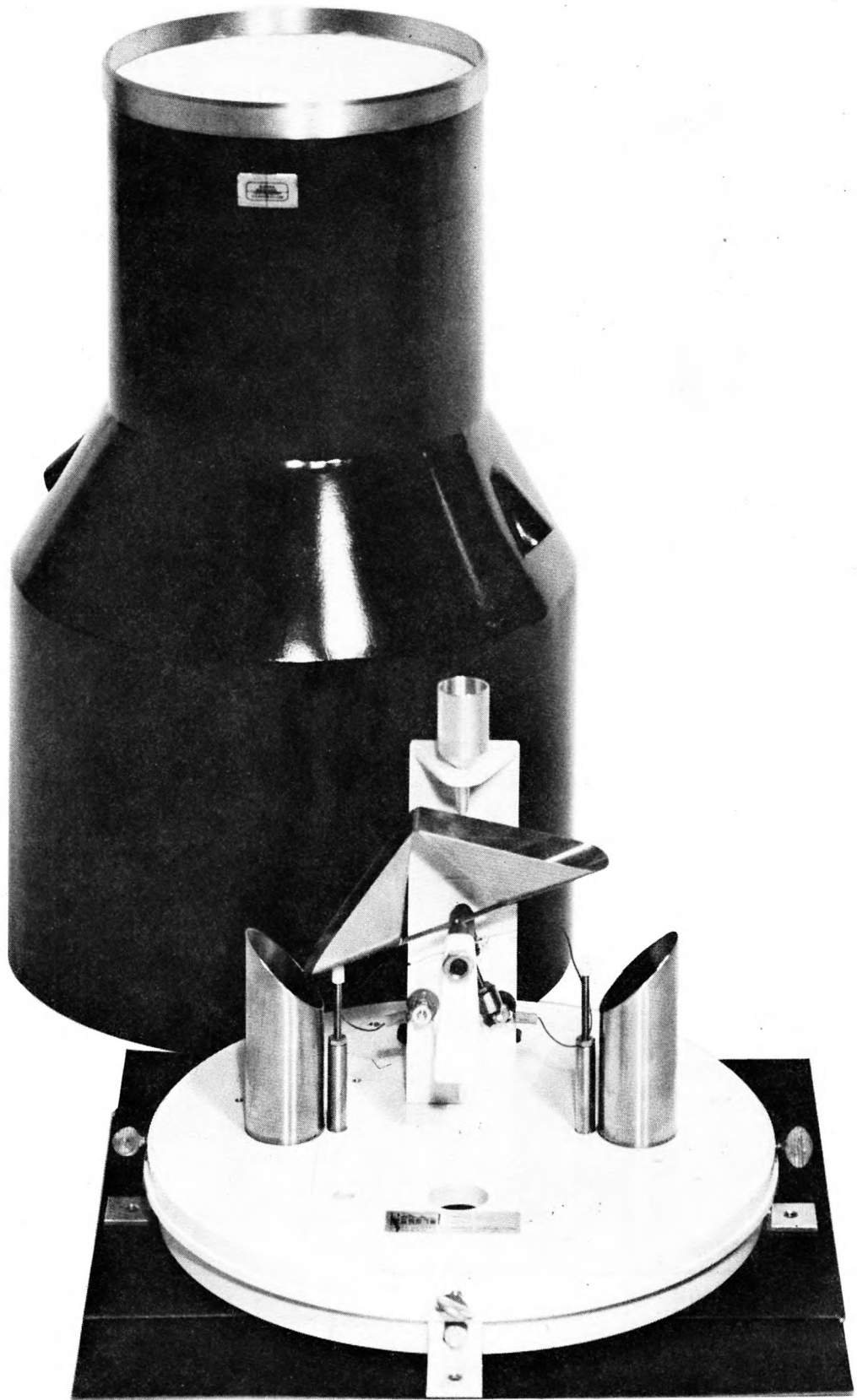
No. 2510 RAIN AND SNOW GAGE

No. 2510S Tripod support for No. 2510



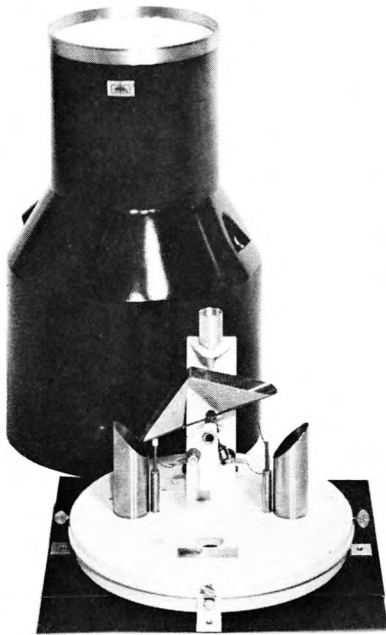
SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 2500 RAIN GAGE [TIPPING BUCKET]



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 2500 RAIN GAGE [TIPPING BUCKET]



DESCRIPTION

The No. 2500 Tipping Bucket Rain Gage uses a stainless steel tipping bucket assembly for measuring precipitation. Rainfall entering the 8" or 12" collector is directed to the tipping bucket assembly. When .01" of precipitation has been collected, the assembly tips and the sample is discharged. The tipping of the bucket assembly activates a mercury switch, therefore, providing an electrical contact for each .01" of rainfall. This switch closure can be used to operate the Model No. 2515 Event Recorder or other data systems. A solid state circuit is used to provide a nominal 60 millisecond pulse duration. Other pulse durations can be provided on special request. Using the 12 volt Gel-Cell battery specified, a full seasons precipitation can easily be recorded without recharging the battery when used with the Model 2515 Event Recorder.

A storage compartment can be provided which houses collection bottles for retention of the rainfall for chemical analysis, etc.

All working parts are made of 300 series stainless steel. The base and bucket support is cast from tenzलय aged prior to machining.

The cover is cold rolled steel, zinc plated, and the top ring is brass. The unit is painted forest green with a white base, and is shipped with 25' of Recorder Cable.

SPECIFICATIONS

ORIFICE	8" standard 12" optional
CALIBRATION ACCURACY	.01" ± 1% (rates of 1 to 3 inches per hour @ 70°F)
ELECTRICAL SWITCH POWER	Mercury 10-14 VDC (Recommended EL Power Rechargeable Battery No. EP 1280C, 12v, 8 amp per hour)
OUTPUT	2 amp nominal current, pulse of 60 ± 15 millaseconds
QUIESCENT POWER	50 micro amps @ rated supply voltage
MOUNTING	Four mounting pads, 1/4" bolt holes, 12 5/8" circle diameter
SIZE	21" high, 12" diameter at base (not including mounting pads)
WEIGHT	25 lbs.
SHIPPING WEIGHT	40 lbs.

ORDERING INFORMATION

NO. 2500 RAIN GAGE (8" orifice)		NO. 2500-CA COLLECTION ASSEMBLY (consists of storage compartment with lock, tygon tubing and collection bottles)	
NO. 2500-12" RAIN GAGE (12" orifice)		NO. 2515 BATTERY 12v	



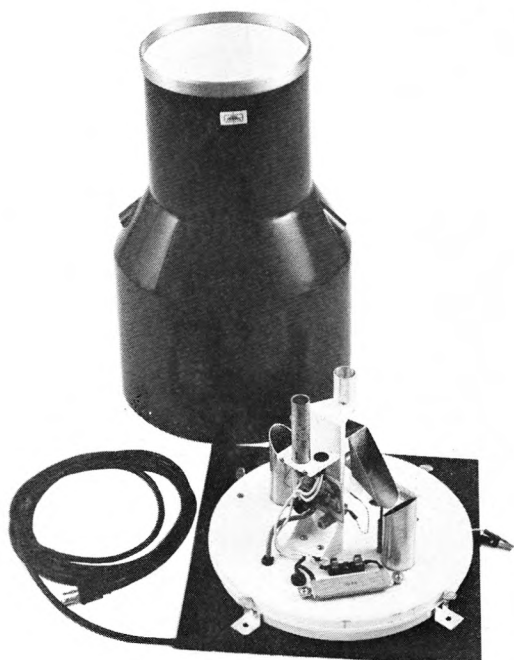
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NO. 2500 E ELECTRIC SNOW GAGE



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959
Telephone (916) 273-1391

NO. 2500 E ELECTRIC SNOW GAGE



The 2500 E Electric Snow Gage is the same basic unit as the No. 2500 Rain Gage. An 115 volt A.C. operated heating kit has been added to provide the capability of measuring snow fall. Heating is accomplished by a **specially designed element** which is formed to match the inside of the collection funnel of the gage, thus, providing heat at the **funnel area** for maximum efficiency. A base heater provides heating at the bottom of the gage and both units are controlled with an adjustable thermostat. The thermostat is mounted so the temperature can be sensed at the tipping bucket assembly.

The gage is available with either an 8" orifice or 12" orifice

By using the Model No. 2515 Event Recorder with the above unit, accurate and reliable precipitation measurements can be obtained.

The gage is shipped with 25' of power cable and 25' of cable for recorder hookup.

SPECIFICATIONS

BASIC GAGE

Same as Model 2500 Rain Gage.

HEATING UNIT

POWER

115 VAC 50/60 cycles, 250 watts.

THERMOSTAT

Instantaneous Response adjustable from -20 to 200°F. $\pm 1^\circ\text{F}$ accuracy.

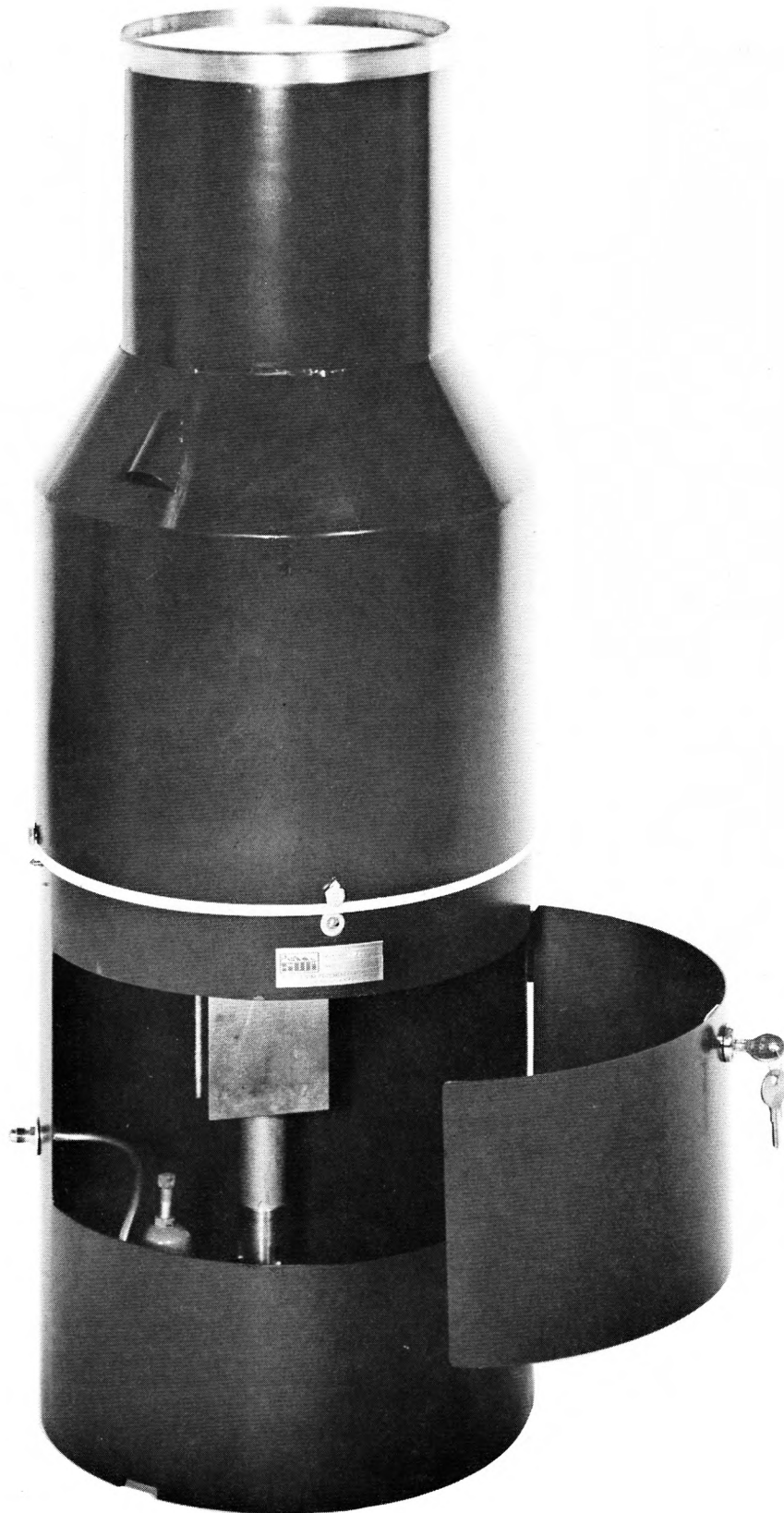
ORDERING INFORMATION

NO. 2500 E ELECTRIC SNOW GAGE (8" orifice)	
NO. 2500 E12 ELECTRIC SNOW GAGE (12" orifice)	
NO. 2500 CA COLLECTION ASSEMBLY (consists of storage compartment with lock, tygon tubing and collection bottles).	
NO. 2500 EK ELECTRIC HEATING KIT only for conversion of basic Rain Gage.	



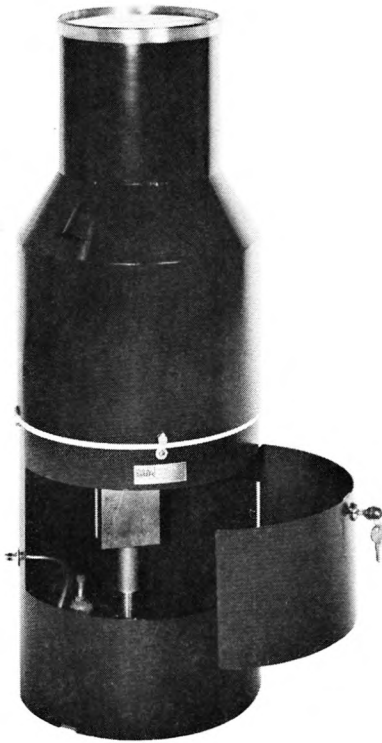
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NO. 2500 P PROPANE HEATED SNOW GAGE



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 2500 P PROPANE HEATED SNOW GAGE



The Model No. 2500 P Propane Heated Snow Gage utilizes a **catalytic** heater as its heat source. This unit has an efficient venturi to accelerate the gas into the catalyst thus reducing the fuel consumption while maintaining an even temperature output. The heater is mounted beneath the gage in the storage compartment and heat is conducted through a duct to a heat chamber at the inlet funnel of the gage top. This method directs the heat to its area of work rather than over-heating the entire gage.

The basic gage is the same as the Model No. 2500 Rain Gage. This unit is also available with an 8" or 12" orifice

The gage is shipped with 25' of cable for hook up to the Model 2515 Event Recorder or other data acquisition systems.

SPECIFICATIONS

BASIC GAGE	Same as Model No. 2500 Rain Gage
HEATING UNIT	
Type	Catalytic Heater
Regulation	Adjustable high pressure regulator.
Operation Pressure	1/2 PSI (to maintain 80° inlet of gage—ambient temperature 22°F)
CONNECTIONS	
	1/4" tubing (all connectors provided)

ORDERING INFORMATION

NO. 2500 P PROPANE HEATED SNOW GAGE (8" orifice)	
NO. 2500 P12 PROPANE HEATED SNOW GAGE (12" orifice)	
NO. 2500 PK PROPANE HEATING KIT only (for conversion of basic 2500 Rain Gage)	



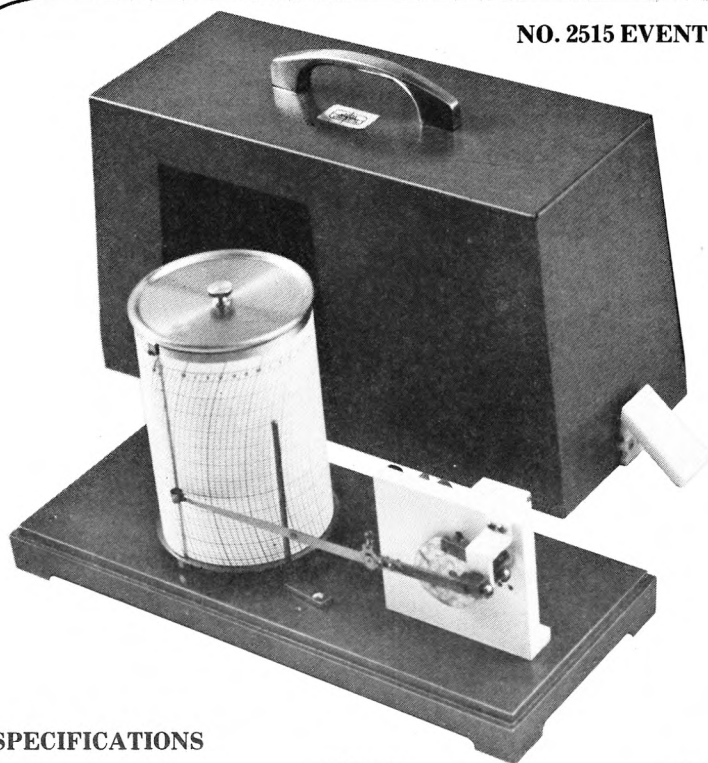
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NO. 2515 EVENT RECORDER



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 2515 EVENT RECORDER



DESCRIPTION

The 2515 Event Recorder has a positive drive unit which advances the pen arm when a switch closure has occurred. A stepping motor connected to a gear reduction unit insures accurate recording of switch closures on the standard seven day clock drum or the alternate long term chart drive. The pen advances 50 steps to the top of the chart, then down the chart 50 steps to provide a continuous recording. When used with the Mod. 2500 series of precipitation gages, each step represents .01" of rainfall. This unit can also be used with other instruments that provide switch closure outputs. A solid state circuit can be provided to serve as a current limit device which extends the battery life in applications where battery life is critical.

By using the long term recording attachment (No. 2515 LT), three months of data can be accumulated.

The base is cast aged tenzaloy and the lid assembly is cold rolled steel. Entire unit is painted hammertone green.

SPECIFICATIONS

INPUT PULSE WIDTH	2 AMP-nominal 60 millisecond-nominal
STANDARD CHART SIZE	11 3/4" x 4", 50 graduations
STANDARD CHART DRIVE	Spring Wound (176 hours) high quality with an 11 jewel lever escapement)
OPTIONAL CHART DRIVE	90 day strip chart, 1 1/2 VDC, 1/4"-hr. feed rate
OPTIONAL CHART SIZE	3 1/2" high with one hour timing marks and 50 graduations.
STANDARD INK SYSTEM	Stainless steel pot pen (approximate 30 day capacity).
ALTERNATE INK SYSTEM	Balanced Pressure Type (capacity in excess of 90 days)
SIZE	13" long, 5 3/4" wide, 9" high.
WEIGHT	9 lbs.
SHIPPING WEIGHT	16 lbs.

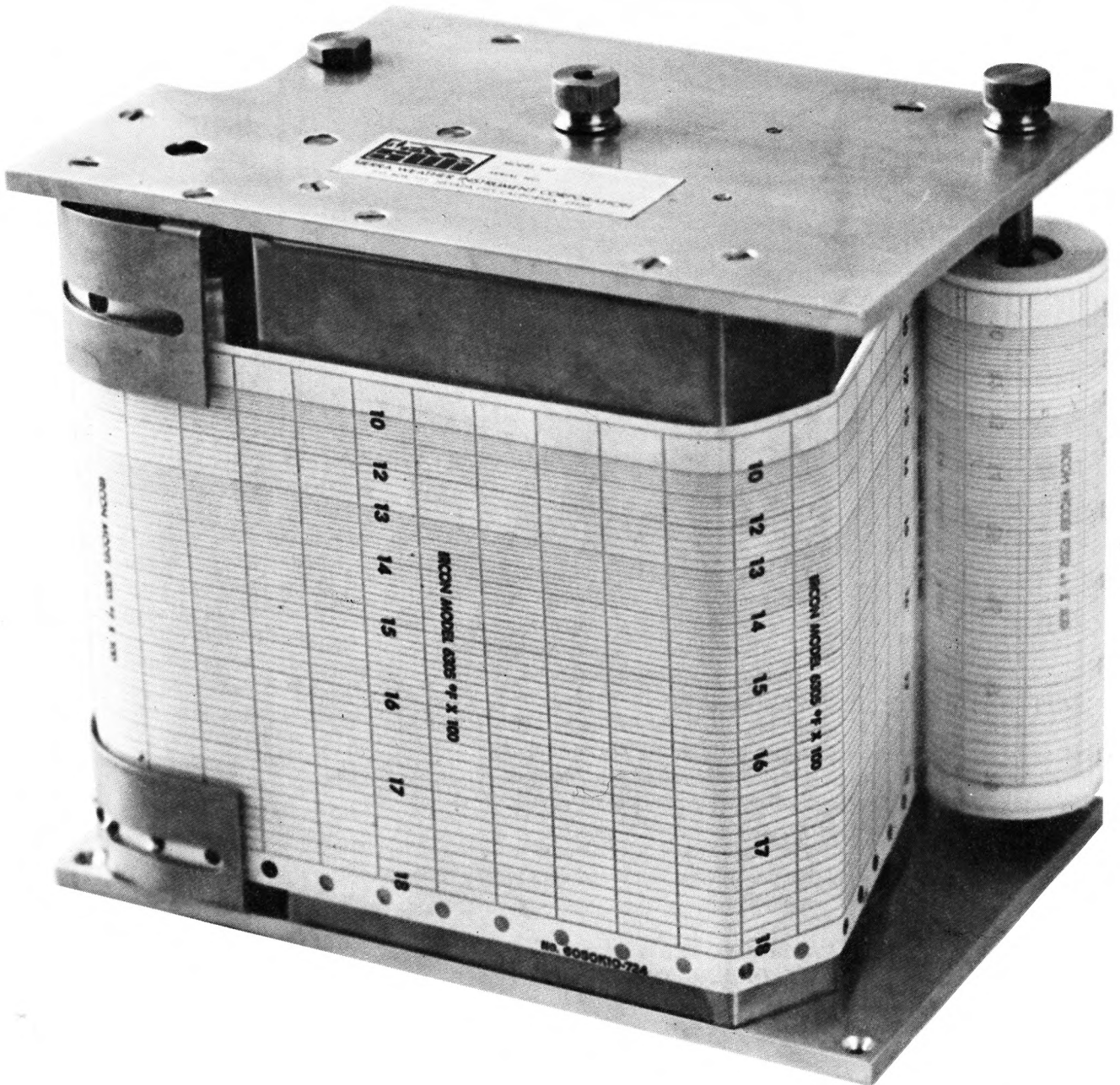
ORDERING INFORMATION

NO. 2515 EVENT RECORDER (176 hour drum rotation, includes pen, ink and 100 charts)		NO. 2515 SS SOLID STATE ELECTRICAL CIRCUIT	
		NO. 2515 BATTERY 12 VOLT	
NO. 2515 LT EVENT RECORDER (90 day strip chart, pen ink and one roll chart paper).		CHARTS	
		NO. 2515W (7 day)	
NO. 5025 BALANCED PRESSURE INKING SYSTEM		NO. 2515 LT (90 day strip chart)	

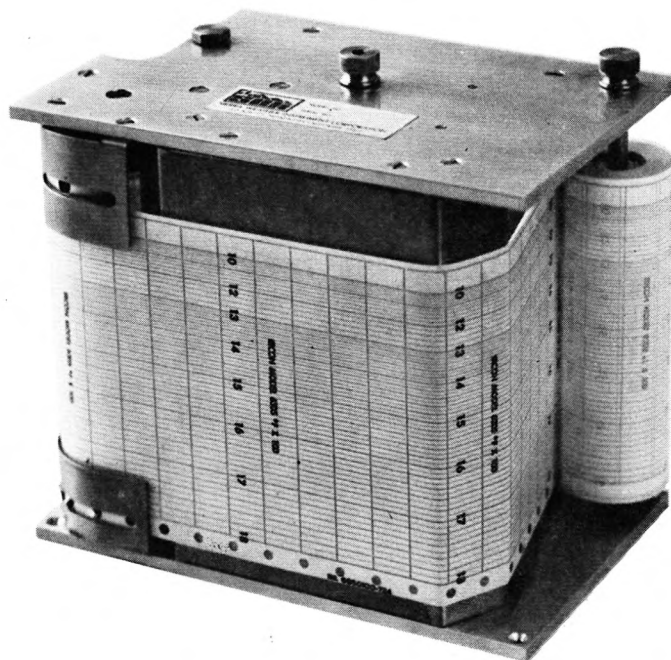


SIERRA WEATHER INSTRUMENT CORPORATION
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NO. 2518 LONG TERM RECORDING ATTACHMENT



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959
Telephone (916) 273-1391



NO. 2518 LONG TERM RECORDING ATTACHMENT

The No. 2518 Long Term recording attachment is designed to be used with all Sierra Weather Instrument drum type instruments. It can be mounted on any of these recorders without modification and provides a 90-day unattended recording capability with a feed rate of 1/4" per hour. The unit is powered by one, 1.5 volt, flashlight battery and has a 6-12 month battery life. The rewind motor is controlled by a reed switch (no wear). The clock movement is a high quality self-starting 11 jewelled lever escapement.

This attachment may also be used to convert other manufacturers drum recorders to long term recording capability.

2518 LONG TERM RECORDING ATTACHMENT



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NO. 2525 WINDSHIELD

In areas of heavy snow fall or when precipitation gages are located in open exposed areas which are subject to strong and gusty winds, Wind Shields are used to minimize the loss in precipitation catch.

The model 2525 Wind Shield consists of 32 free swinging galvanized metal leaves suspended of a rigid galvanized rod 48 inches in diameter. Each leaf is fabricated from **prime quality sheet**, (22, gage) 16 inches long, 3 inches wide at the top, and 2 inches wide at the bottom. The Wind Shield is furnished with upright supports designed to locate the leaves 1/2 inch above the orifice when used when the 2500 rain gage. May also be used with the 2500E and 2500P snow gages.

Shipping weight 73 lbs.

2525 WIND SHIELD COMPLETE



NO. 2520 RAIN GAGE "FORESTER TYPE"

This all aluminum "Forester" type rain gage has a total capacity of seven inches of rainfall. The orifice of the **gage** is approximately 8". Shipped complete with lamacoid measuring stick that can be read to 0.01".

Shipping weight, 5 lbs.

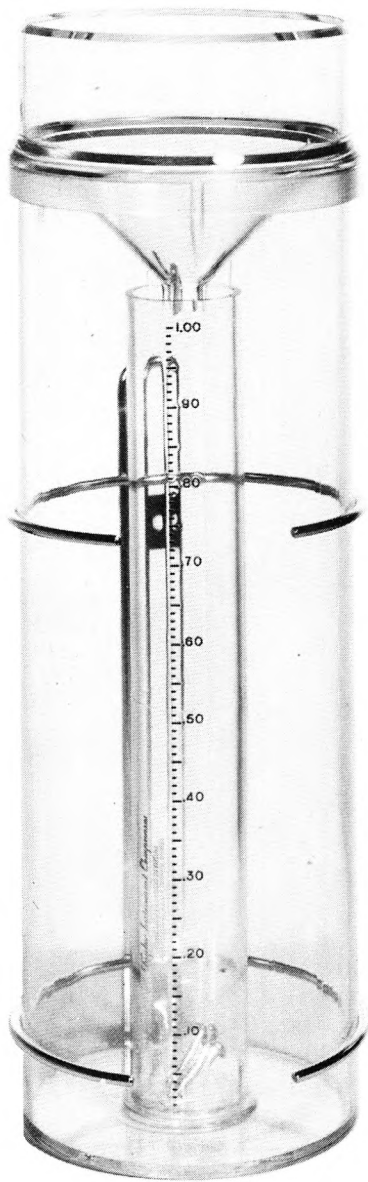
2520 RAIN GAGE

2520S SUPPORT FOR ABOVE

(Permits gage to be easily mounted on post.)



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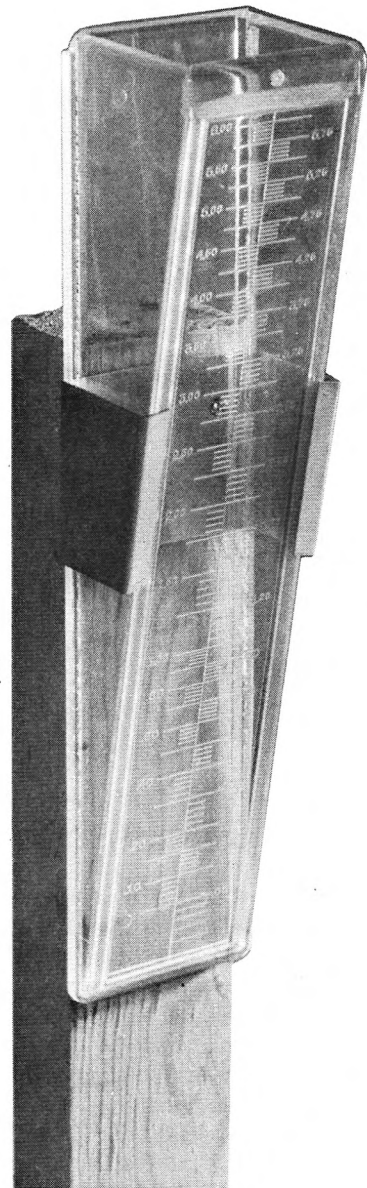


NO. 2531 CLEAR VU RAIN GAGE

Rainfall measurements are easily obtained with this Clear Vu Rain Gage. Tenite butyrate case with inner receiver graduated to one inch. Total measurements up to eleven inches can be obtained. Complete with mounting bracket.

Shipping weight, 2 lbs.

2531 CLEAR VU RAIN GAGE



NO. 2530 TRU-CHEK RAIN GAGE

The Tru-Chek rain gage is a smooth one-piece moulding of heavy weather resistant plastic. The graduated scale, measuring from .01 to 6 inches of rainfall, is permanently marked in the plastic. The gage is 13 inches long and has a top opening of 2½ x 2¼ inches. Complete with aluminum mounting bracket.

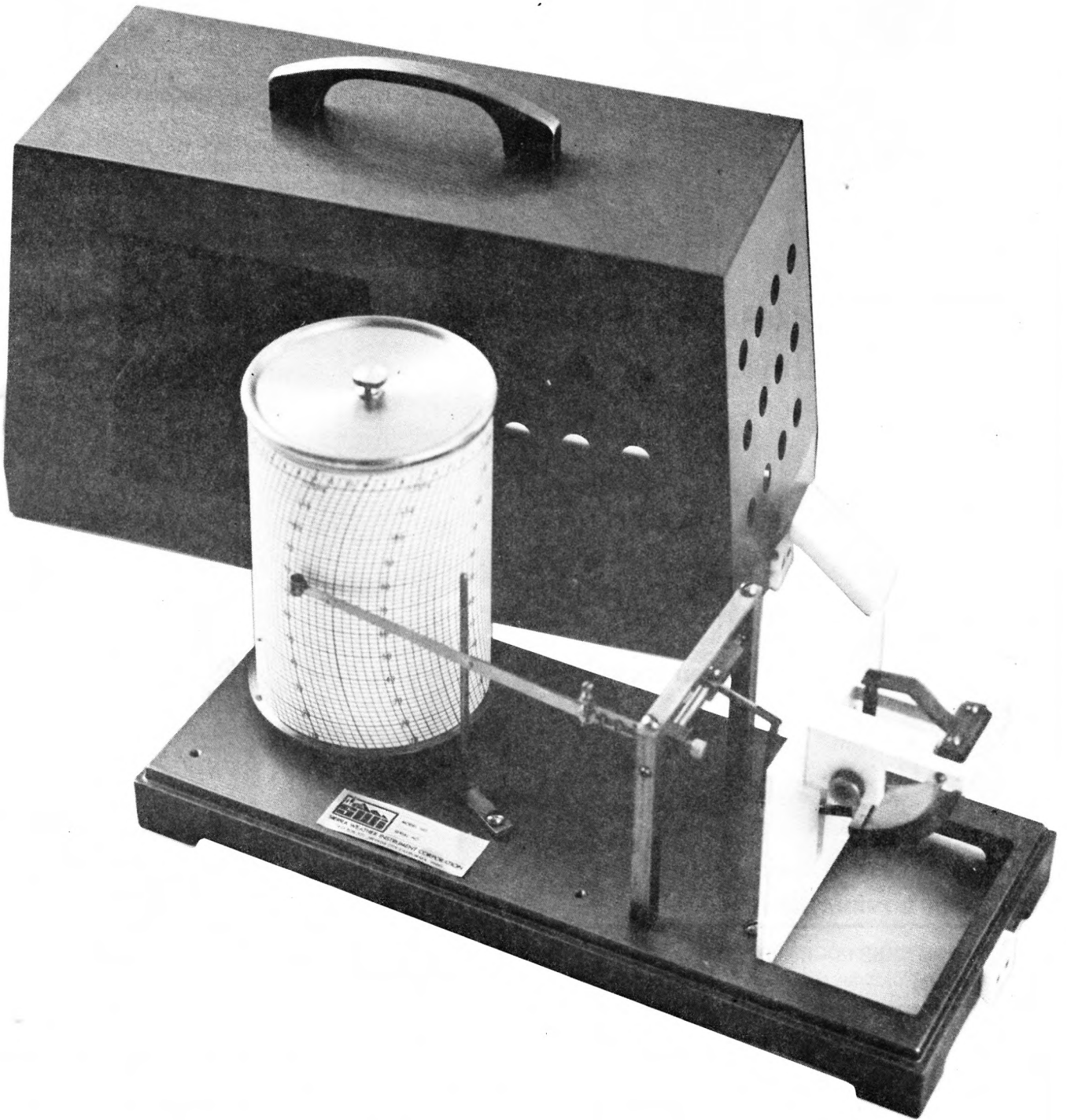
Shipping weight, 2 lbs.

2530 TRU-CHEK RAIN GAGE



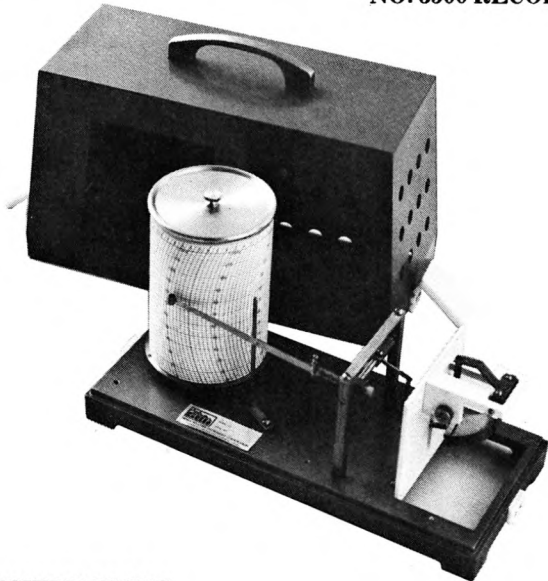
SIERRA WEATHER INSTRUMENT CORPORATION
 P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 3500 RECORDING THERMOGRAPH



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

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.

All linkage and pivots are polished 300 series stainless steel. The pivots operate in olive hole jewel bearings to reduce friction and maintain accuracy within the linkage system.

The base is cast from tenzaloy and the lid assembly is fabricated from cold rolled steel and painted hammertone green.

SPECIFICATIONS

ACCURACY	$\pm 1\%$
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	4 3/4" x 11 9/16", 2°F graduations
OPTIONAL CHART DRIVE	90 day strip chart, 1 1/2 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).
ALTERNATE INK SYSTEM	Balanced pressure type (capacity in excess of 90 days)
SIZE	13" long, 5 3/4" wide, 9 1/2" high
WEIGHT	9 lbs.
SHIPPING WEIGHT	16 lbs.

ORDERING INFORMATION

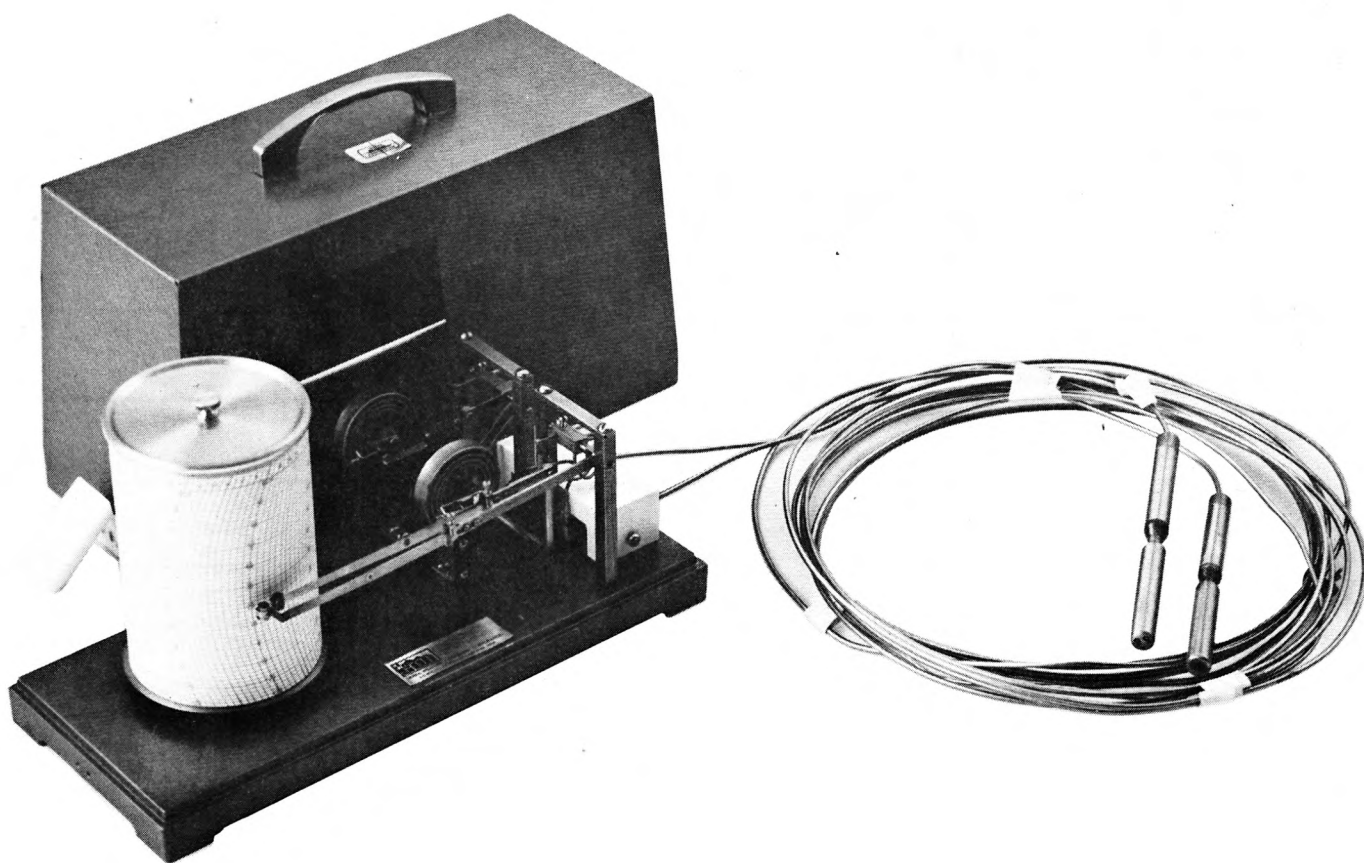
CHARTS

NO. 3500 THERMOGRAPH 176 hour drum rotation) includes pen, ink and 100 charts		NO. 3500 WHF (7 day, +10°F to 120°F)
		NO. 3500 WLF (7 day, -30°F to +80°F)
NO. 3500LT THERMOGRAPH (90 day strip chart) includes pen, ink and one roll of chart paper.		NO. 3500WC (7 day, -20°C to +40°C)
		NO. 3500-90 HF (90 day, +10°F to +120°F)
NO. 5025 BALANCED PRESSURE INKING SYSTEM		NO. 3500-90LF (90 day, -30°F to +80°F)
		NO. 3500-90C (90 day, -20°C to +40°C)



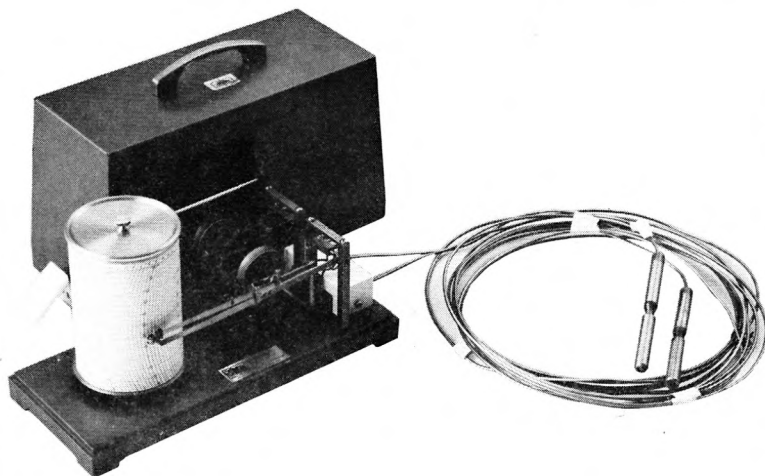
SIERRA WEATHER INSTRUMENT CORPORATION
 P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

**NO. 3510 SERIES SINGLE AND DUAL POINT
DISTANCE THERMOGRAPHS**



SIERRA WEATHER INSTRUMENT CORPORATION
P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

**NO. 3510 SERIES SINGLE AND DUAL POINT
DISTANCE THERMOGRAPHS**



SPECIFICATIONS

ACCURACY	± 2%
CALIBRATION	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
CAPILLARY LENGTH	15' or 30' (other lengths available on special request)
STANDARD CHART DRIVE	Spring Wound (176 hour rotation) 11 jewel lever escapement.
STANDARD CHART SIZE	4 3/4" x 11 9/16", 2°F graduations
OPTIONAL CHART DRIVE	90 day strip chart, 1 1/4 VDC, 1/4"-hr. feed rate.
OPTIONAL CHART SIZE	4" height with one hour timing marks and 2°F graduations.
STANDARD INK SYSTEM	Stainless Steel pot pen (approximately 30 day capacity)
OPTIONAL INK SYSTEM SIZE	Balanced pressure type (capacity in excess of 90 days) 13" long, 5 3/4" wide, 9 1/2" high.
WEIGHT	(Single Point 15' capillary) 12 lbs.
SHIPPING WEIGHT	(Single Point 15' capillary) 19 lbs.

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 other.

The thermal bulb and the capillary are fabricated from 347 stainless steel, the thermal bulb itself is 1/2 inch in diameter and 6 1/2 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 tenzalyo 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 1 1/2 volt "D" cell battery for approximately six months.

ORDERING INFORMATION

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

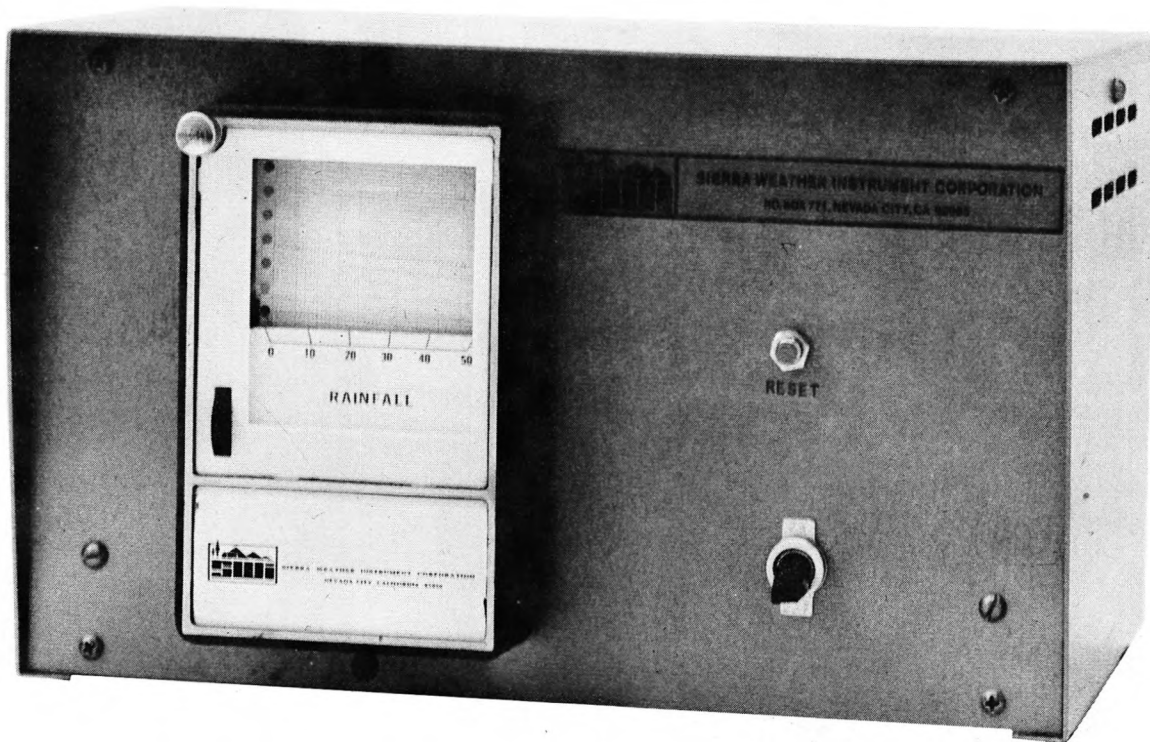
CHARTS

3500-W-HF 10°F to 110°F (176 hour rotation)	
3500-W-LF -30°F to 80°F (176 hour rotation)	
3500-W-C 20°C to 40°C (176 hour rotation)	
3500-LT-HF 10°F to 110°F (90 day strip chart)	
3500-LT-LF -30°F to 80°F (90 day strip chart)	
3500-LT-C 20°C to 40°C (90 day strip chart)	



SIERRA WEATHER INSTRUMENT CORPORATION
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NOS. 2516AC and 2516DC EVENT RECORDER



The Sierra Weather Instrument 2516 Event Recorder is a completely self-contained unit designed to receive and record outputs from intermittent pulse producing instruments such as the Model 2500 Tipping Bucket Rain Gauge.

In this instrument, events are recorded from 0 to 50 on a chart that is 2 5/16 inches wide and operating at a chart feed rate of one inch per hour. When used the Model 2500 Tipping Bucket Rain Gauge which will send a pulse for every .01 inch of rainfall, 50 events would equal one-half inch of precipitation.

This unit employs all solid state electronics design and will furnish years of trouble-free operation under extreme environmental conditions.

SPECIFICATIONS

CHART	63' long, 2 5/16" wide, 50 divisions
CHART FEED	one inch per hour (other feeds available).
POWER REQUIRE- MENTS (AC)	100-135 volts, 5 watts
POWER REQUIRE- MENTS (DC)	12 volts (two model 5031 batteries) 31 days
SIZE	7 x 8¾ x 11½"
WEIGHT	6 lbs.

**ORDERING
INFORMATION**

SPECIFY

Event Recorder (AC operation)	2516AC
Event Recorder (DC operation)	2516DC
Rechargeable battery and charger	Models 5030 and 5031 (refer to page 50A)
Chart Paper	2516C



SIERRA WEATHER INSTRUMENT CORPORATION
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NO. 2535 DIGITAL RAIN RATE CONTROLLER



The Model 2535 Digital Rain Rate Controller is an all solid state instrument utilized in computing rain rate in inches per hour, and accumulating the total rainfall in inches of rain. Both total rainfall and rate are presented at the front panel by digital display. The range of both registers is from 0 to 9.99. Rain rate thumb-wheel switches are provided to define the allowable rain rate. When the rain rate is exceeded, the electronics will execute a static logic signal to drive a relay which in turn interfaces with remote instruments.

SPECIFICATIONS

INPUT POWER 110 RMS 30 watts

INPUTS

EVENT INPUT Switch closure. Each closure represents .01 inch of rain

RAIN RATE PROGRAM SWITCH RANGE 0.00 to 99.99 inch/hour of rain

TIME INTERVAL SWITCH 1, 5, 10, 15, 20, 30, 60 minutes

DIGITAL DISPLAY

TOTAL RAIN REGISTER 0.00 to 99.99 inch/hour of rain

RANGE RESOLUTION ±.01

RAIN RATE REGISTER 0.00 to 9.99 inch/hour of rain

RANGE RESOLUTION ±.01

OUTPUTS

CONTROLLER RELAY 10 amp contact closure provided when actual rain rate exceeds setting on Rain Rate Program Switches

OPTION Digital printer available. Displays time in hours and minutes and the corresponding rain total and rain rate data.

SIZE 14½ x 13 x 6½"

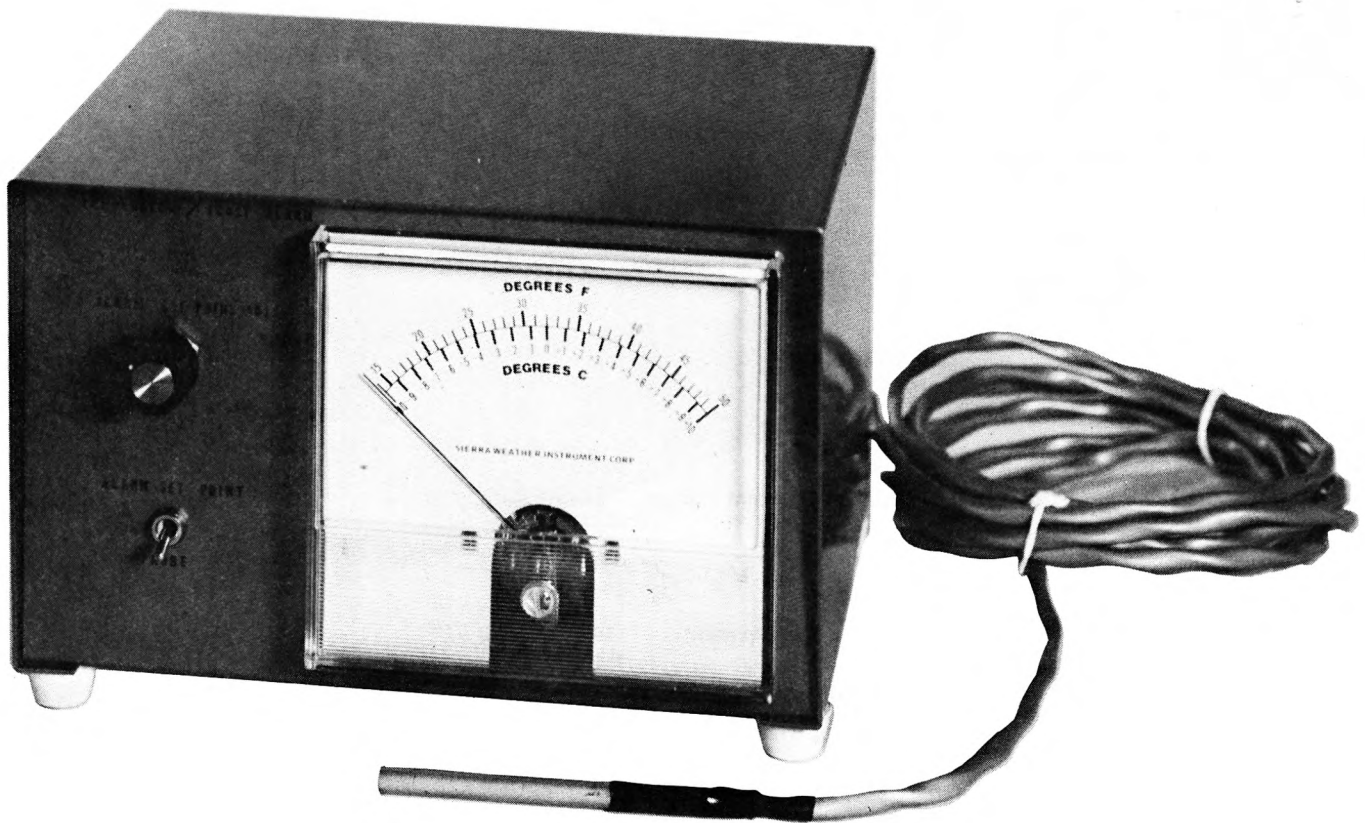
WEIGHT 15 lbs.

SHIPPING WEIGHT 17 lbs.



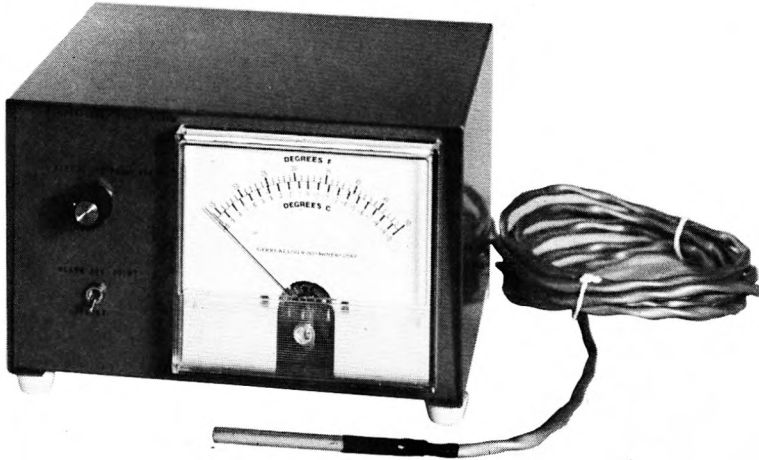
SIERRA WEATHER INSTRUMENT CORPORATION
 P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391

NO. 3550 TEMPERATURE ALARM



SIERRA WEATHER INSTRUMENT CORPORATION
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NO. 3550 TEMPERATURE ALARM



DESCRIPTION

The 3550 Temperature Alarm was designed for agricultural purposes. However, the unit can be used in any application where a temperature alarm is needed. The standard range is +14 to +50°F (-10 to +10°C). Any optional range between -100°F to +300°F can be supplied at a slight additional cost. The large (4 inch) dial permits easy reading and setting of the alarm at any temperature desired, within the range. The unit operates on 110 VAC or 12 VDC standby power. A relay for control of remote equipment can also be supplied. Fifty feet of 22 AWG wire for the temperature probe is provided with the unit. Additional wire up to 1,000 feet can be ordered below. For cable lengths longer than 1,000 feet consult the factory for proper wire size.

SPECIFICATIONS

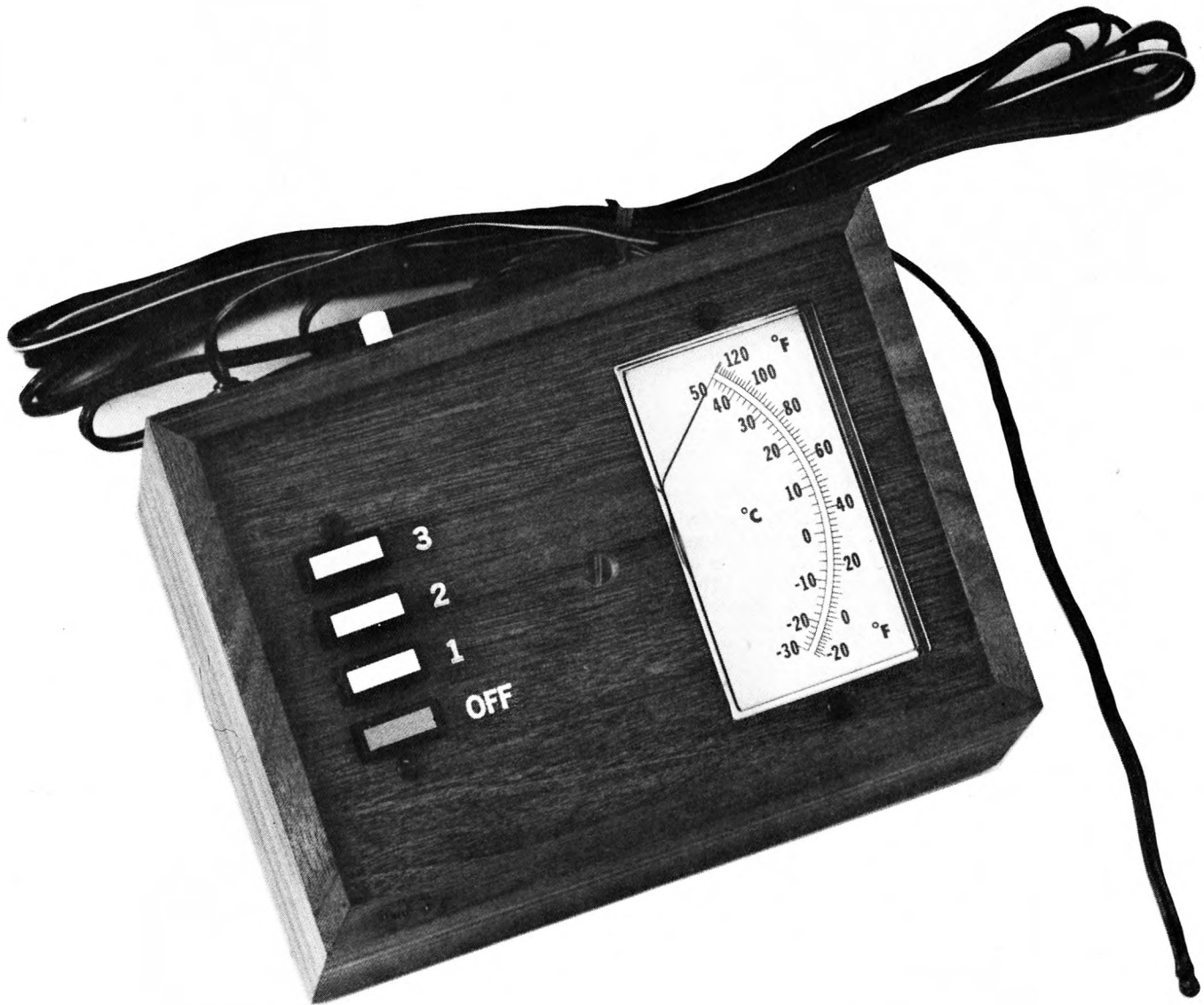
Accuracy	±.7°F
Resolution	±.25°F
Alarm Set Point Range	-14 to +50°F (other ranges available)
Alarm	Audio Tone
Dial Size	4"
Power Requirements	110 VAC or 12 VDC standby
Overall Size	8½" x 7" x 6"
Shipping Weight	7 lbs.

ORDERING INFORMATION

No 3550 Temperature Alarm (with 50' of probe cable)	
No. 3550A Replacement Temperature Probe and 50' of cable	
No. 3550C Additional 22 AWG Probe Cable	



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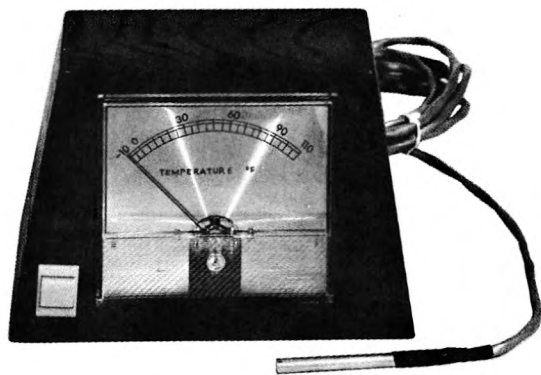
NO. 3515 ELECTRIC THERMOMETER

The No. 3515 Electric Thermometer is a precision instrument capable of measuring accurately and reliability temperatures detected remotely by sealed solid state probes. The unit is powered by a single "D" cell flashlight battery which has a life of over one year if used **continuously**. The instant reading meter has scales in both fahrenheit and centigrade in ranges of -22 to +122°F, and -30 to +50°C. The unit has the capacity for measuring **three** individual temperatures at separate locations up to 1,000 feet from the instrument. The No. 3515 Thermometer includes a four position push button control with OFF, location #1, location #2, location #3. Included are two solid state temperature probes; one with 18" of cable, and the second with 15' and instructions. Size 6 3/4" x 4 1/2" x 3 1/2", Shipping Weight 3 lbs.

NO. 3515 ELECTRIC THERMOMETER	
NO. 3515A SPARE THERMOMETER PROBE (6')	
NO. 3515B SPARE THERMOMETER PROBE (15')	
NO. 3515C SPECIAL PROBE Special Probe (solid brass) for mounting thru the hull of a boat & 15' of cable	



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3516

ELECTRIC THERMOMETER

This electric thermometer reads temperatures within a range of -10°F to $+110^{\circ}\text{F}$. By using two probes, temperatures at different locations can be measured simultaneously and read on the wide 4 inch meter by a flip of the switch. The unit is powered by a single battery (supplied). Excellent for indoor-outdoor temperature, swimming pools, aquariums and orchards. By using a special probe that permits mounting through the hull of a boat, water temperature can be measured accurately. This is extremely important in commercial and sport fishing and yacht racing. Solid state electronics are housed in an attractive hand-rubbed, walnut finished case. Shipping weight, 10 lbs.

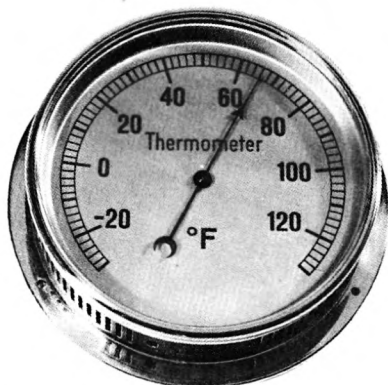
3516 ELECTRIC THERMOMETER

With one probe and 30' of connecting cable.

3516A ADDITIONAL PROBE and 30' of connecting cable.

3516B ELECTRIC THERMOMETER with special probe for hull mounting in boat and 30' connecting cable

3516C SPECIAL PROBE for hull mounting on boat and 30' of connecting cable.

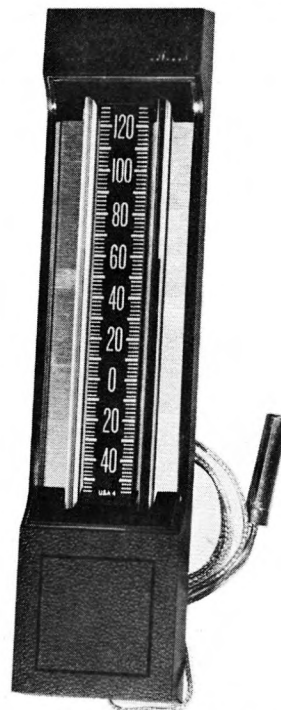


3529

DIAL THERMOMETER

This easy to read dial thermometer has a large 5" silvered dial with black graduations. The polished brass case has a 6" diameter mounting flange. Temperature range from -30°F to $+130^{\circ}\text{F}$. This model matches Model No. 1515 Barometer and Model No. 2020 Hygrometer. Shipping weight, 2 lbs.

3529 DIAL THERMOMETER



3526

INDOOR OUTDOOR THERMOMETER

Decorative black pebble finished case with silver trim. Unit provides immediate reading of indoor and outdoor temperatures. Tubes are $9\frac{3}{4}$ " in length. Supplied with four feet of capillary tubing for outside temperature reading. Shipping weight, 2 lbs.

3526 INDOOR OUTDOOR THERMOMETER



3536

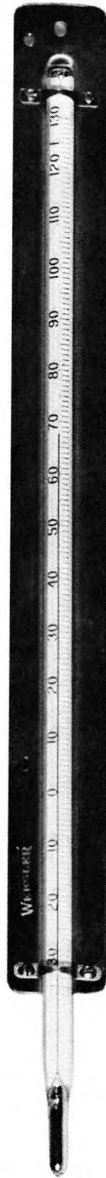
RECORDING THERMOGRAPH

The permanent, dry-stylus thermograph (recording thermometer) can be used for any application where a continuous record of temperature is required. Particular applications include refrigerators, coldrooms, dairies, drying sheds, greenhouses and buildings. Can be mounted in Model No. 4530 Thermometer Shelter when used outdoors. The essential features are a special chart drive clock mechanism, a bimetallic temperature-sensing element, a stylus and chart paper. Supplied with a 168 hour (7 day) clock and a temperature range of -40°F to $+160^{\circ}\text{F}$. A 24 hour clock and other temperature ranges available on request. Shipping weight, 2 lbs.

3536 RECORDING THERMOGRAPH
(Complete with 100 charts)



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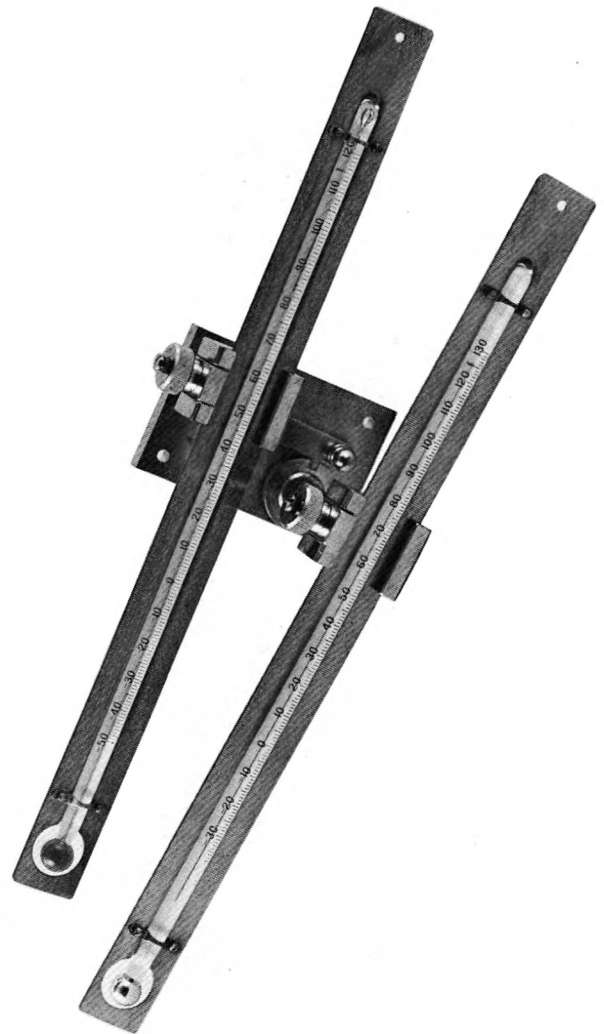
NO. 3520 STANDARD MERCURY THERMOMETER

Standard U.S. Weather Bureau mercury thermometer. One degree graduations etched on 10½ inch tube. Attached to stainless steel back. Range approximately -38° to +130°F. Other ranges available on request.

Shipping weight 2 lbs.

3520 STANDARD THERMOMETER

**3520S BRASS SUPPORT FOR
EASY MOUNTING**



**WEATHER BUREAU PATTERN MAX-MIN
NO. 3521 THERMOMETERS**

A set of maximum-minimum Thermometers on stainless steel backs and approved support. The support holds both thermometers in correct operating position and permits resetting without removing the instruments. The thermometers should be mounted on the cross support of the No. 4525 Weather Bureau type instrument shelter for proper readings. Maximum thermometer range 20 to 120°F; minimum thermometer range -40 to 120°F.

**NO. 3521 MAXIMUM-MINIMUM THERMOMETERS
AND TOWNSEND SUPPORT**

**NO. 3522 MINIMUM THERMOMETER ON
STAINLESS STEEL BACK**

**NO. 3522A TUBE ONLY FOR MINIMUM
THERMOMETER**

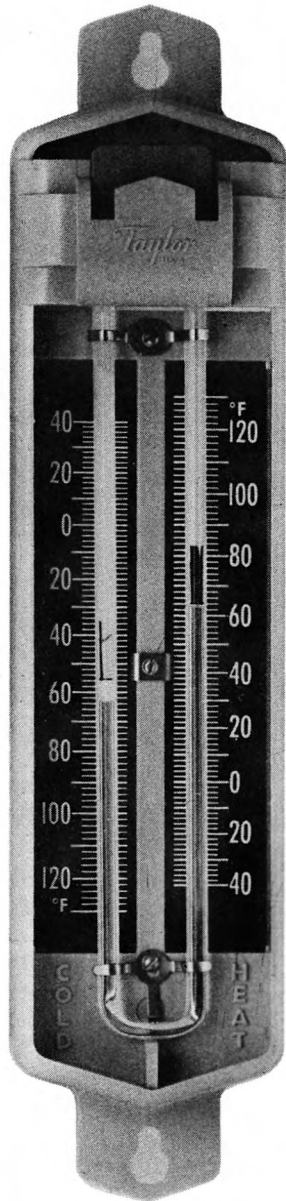
**NO. 3523 MAXIMUM THERMOMETER ON
STAINLESS STEEL BACK**

**NO. 3523A TUBE ONLY FOR MAXIMUM
THERMOMETER**

NO. 3524 TOWNSEND SUPPORT



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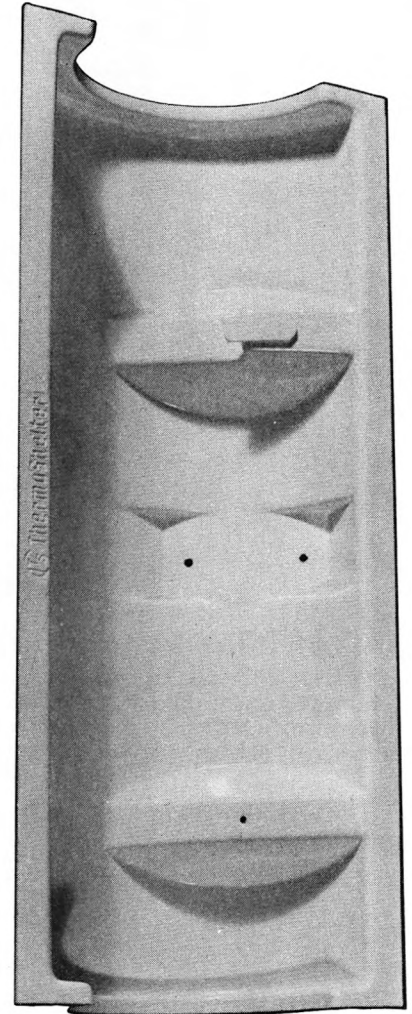
NO. 3525 MAXIMUM-MINIMUM THERMOMETER

"U" shape thermometer registers maximum and minimum temperatures for any period and shows present reading. Range: -40° to +120°F.

Shipping weight 2 lbs.

3525 MAXIMUM-MINIMUM THERMOMETER

(Complete with magnet for resetting indices.)



NO. 3527 ORCHARD-GROVE THERMOMETER

Orchard-Grove Thermometer indicates present temperature and minimum reached. Stainless steel back 13 1/4" long. Range 10° to 100°F in 1° divisions.

Shipping weight, 2 lbs.

3527 ORCHARD-GROVE THERMOMETER

NO. 3527S THERMOSHELTER

Shelter for Model No. 3527 Orchard Grove Thermometer. Permits proper mounting of thermometer for correct minimum temperature reading.

Shipping weight, 3 lbs.

3527S THERMOSHELTER



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NO. 4525 INSTRUMENT SHELTER

The No. 4525 is a Weather Bureau medium-sized type and has louvered sides with a double top designed to protect instruments from precipitation, condensation, and radiation. The louvered construction permits air to circulate freely through the shelter. A cross board near the center is provided for properly mounting thermometers. Ideal for housing hygrother-

mographs, thermometers and other meteorological instruments. Shelter dimensions are approximately 32" high, 30" wide and 20" deep and unit treated with preservative prior to painting to assure long life in the field. Shipped assembled with wooden legs partially assembled. (Metal legs available at additional cost).

Shipping Weight 100 lbs.

NO. 4525 INSTRUMENT SHELTER



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NO. 4530 THERMOMETER SHELTER

Small shelter for housing Model No. 3525 Maximum-Minimum or No. 3520 Standard Thermometers. Louvers in the sides and front provide ventilation to

the thermometer. Pre-drilled holes in top or bottom for mounting. Complete with lock and key.

Shipping weight 10 lbs.

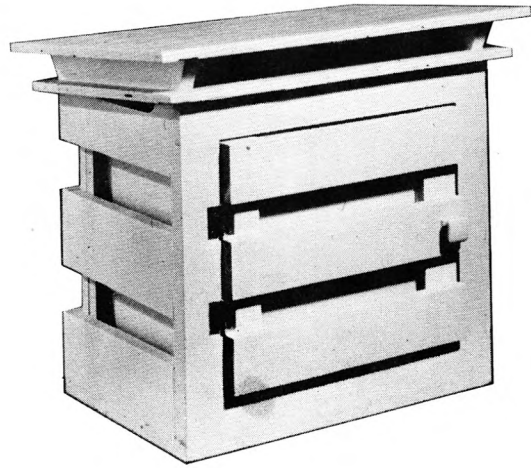
4530 THERMOMETER SHELTER



SIERRA WEATHER INSTRUMENT CORPORATION
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NO. 4535 SMALL INSTRUMENT SHELTER

This unit is manufactured to conform with U.S. Weather Bureau Specification. No. 450.0614 (SHELTER, INSTRUMENT, SMALL) and is ideally suited for housing thermographs, hygrothermographs and other recording instruments. Painted white. Overall dimensions are 18" wide, 13" deep and 20" high. Shipped assembled. Shipping weight 18 lbs.



NO. 5030 BATTERY CHARGER

The Sierra Weather 12 volt Battery Charger was developed to overcome two serious shortcomings of present-day solid gel cell battery chargers and to give the user a fail-safe device. With the Model 5030 Battery Charger, the battery cannot be overcharged or undercharged since manual switching on and off has been completely eliminated and the correct float voltage is maintained at all times.

SPECIFICATIONS

SIZE	3x4x5"
POWER INPUT	115 VAC 60/50 Hz
END OF VOLTAGE CHARGE	14.2 VDC
FLOAT VOLTAGE AT 70°F	13.5 VDC
WEIGHT	4 lbs.
SHIPPING WEIGHT	7 lbs.

NO. 5031 BATTERY

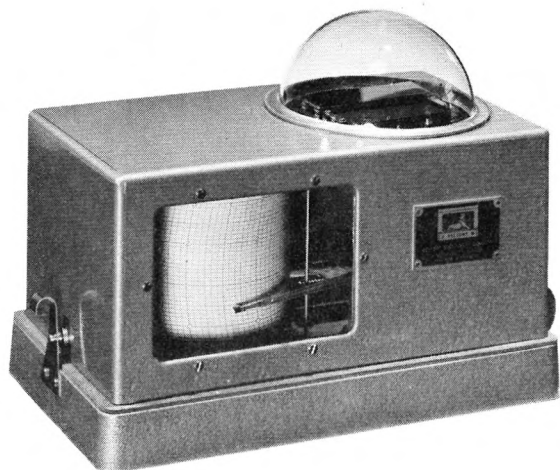
After extensive testing under varied environmental extreme conditions which included temperatures from -40 to +140°F, Sierra Weather Instruments has selected a 12 volt, 8 ampere hour rechargeable solid gel cell battery to be used in conjunction with its instruments when a portable power source is required. This battery is completely sealed and can be operated, charged, or stored in any position without leakage.

SPECIFICATIONS

SHELF LIFE	Battery will remain charged one year
CYCLE LIFE	More than 100 full charge and full discharge cycles.
SIZE	2¼ x 5½ x 8¾"



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NO. 4001 PYRHELIOGRAPH

The Model No. 4001 Pyrheliograph accurately measures and records variations in solar radiation completely independent of any external power source.

The measuring element of the instrument consists of two rhodium plated bimetallic strips, one of which is blackened and the other given a highly reflective plating. The blackened strip is exposed to both the ambient temperature and the radiant energy of the sun while the polished strip is exposed to the ambient temperature but shielded from the radiant energy of the sun. These two strips are mounted in tandem through a long thermal path convertor fin coupling which prevents heat flow between the two strips. Mounting is such that only differential temperature produces motion of the pen arm while ambient temperature changes result in no motion. Thus, only the motion of the blackened strip which is caused by radiant energy is recorded while that resulting from ambient temperature is compensated and has no effect. The elements are housed under a dome made of Borosilicate glass.

The time constant of the instrument is five minutes. Sensitivity is 0.1 gram calorie per square centimeter per minute. This provides adequate margin over the maximum solar radiation encountered and brings the most usually recorded values at mid-scale where the highest instrument accuracy exists.

SPECIFICATIONS**ACCURACY**

Within $\pm 5\%$ of value recorded or $\pm .05$ gram calorie per square centimeter per minute, whichever is greater.

SIZE

13½" long, 7" wide, 9" high

CHARTS**No. 4001D**

Daily (24 hr.) -0.3 to $+3.0$ gram calories per square centimeter per minute

No. 4001W

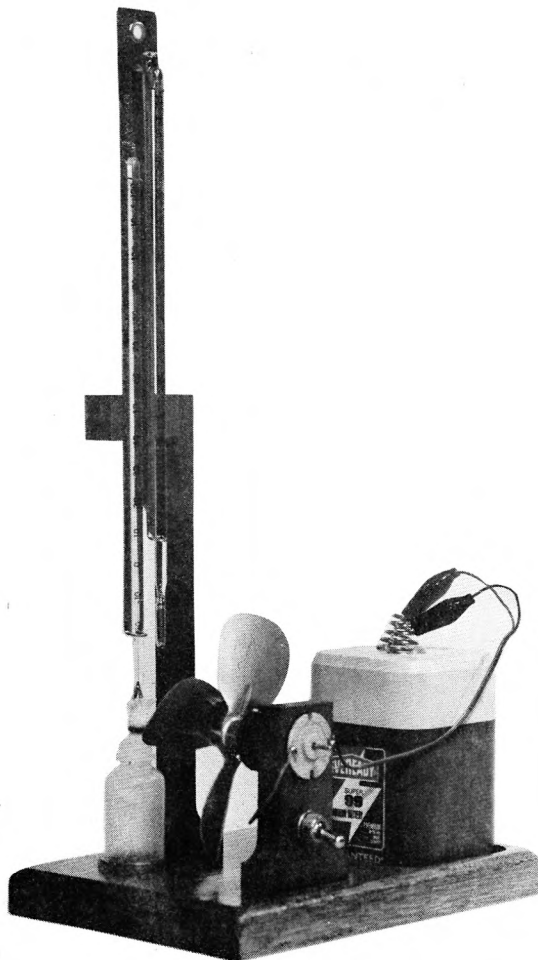
Weekly (192 hr.) -0.3 to $+3.0$ gram calories per square centimeter per minute

SHIPPING WEIGHT

15 lbs.

ORDERING INFORMATION

Pyrheliograph No. 4001 complete with chart drive, pen, ink, and set of 100 charts.

No. 2030 FAN PSYCHROMETER

The Model 2030 Fan Psychrometer is used for determination of dew point and relative humidity. It consists of 9½" dry and wet bulb thermometers mounted on a common back, a water cistern, fan and motor, and six volt battery.

The components are mounted on a wooden base. The bulb of the lower thermometer is covered with a close fitting tubular muslin wicking. When the fan is turned on for a period of 2-3 minutes, water is evaporated from the wick-covered thermometer and the wet bulb temperature is recorded. The difference between the wet bulb and dry bulb temperatures is recorded and the humidity is determined by use of the chart provided or the No. 2018 Psychrometric Slide Rule. A wooden handle is also provided so that the unit can be manually used (See No. 2015). Thermometer range is -20 to $+120^{\circ}\text{F}$. Other ranges are available on request. The unit comes complete with battery and instructions.

No. 2030 Fan Psychrometer

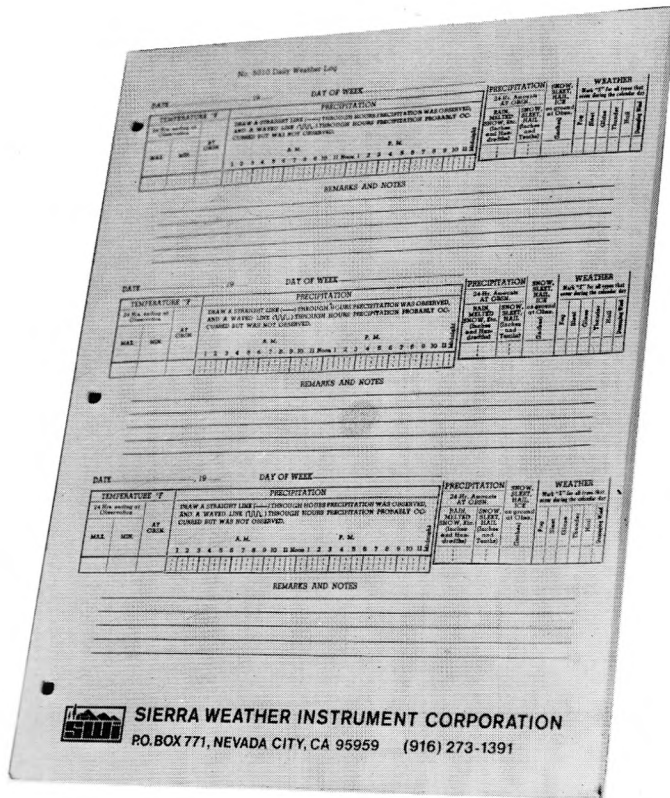
No. 2030A Replacement Thermometer

No. 2030B Replacement Battery

No. 2030C Replacement Wicks (pkg. of 12)



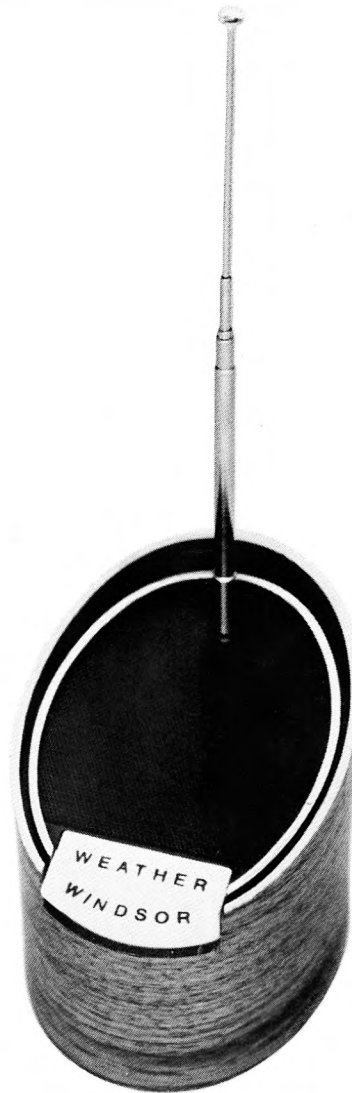
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**5010
DAILY WEATHER LOG**

A one year supply of forms for recording daily weather conditions. Essential for accurate weather data records. Shipping weight, 1 lb.

5010 DAILY WEATHER LOG



**5005
WEATHER FORECAST RADIO**

Instant weather reports are available anytime of the day or night. Just press the button and you get the latest official United States Weather Service broadcasts for your area. This radio is an all transistor unit that receives on VHF 162.5 MHz. Powered by a 9v battery (included). Size 4" x 4 1/2" x 3". Shipping weight, 2 lbs.

5005 WEATHER FORECAST RADIO

WEATHER STATIONS NOW ON THE AIR IN THESE CITIES *

- | | | | | | |
|---------------|----------------|------------------|---------------|-----------------|-----------------|
| Akron | Chicago | Eureka, Ca. | Miami | Palm Beach, Fl. | Savannah |
| Anchorage | Cleveland | Fort Worth | Milwaukee | Pensacola* | Seattle |
| Astoria, Or. | Corpus Christi | Galveston | Mobile | Portland, Me. | Seward, Al. |
| Atlanta | Dallas | Hyannis, Ma. | Monterey Bay | Portland, Or. | St. Joseph, Mo. |
| Atlantic City | Denver | Indianapolis | Moorehead, NC | Sacramento | St. Louis |
| Boston | Des Moines | Jacksonville | New London | Salt Lake City | Tampa |
| Brownsville | Detroit | Kansas City, Mo. | New Orleans | San Diego | Washington, DC |
| Buffalo | Erie | Lake Charles | New York City | Sandusky | Wichita |
| Canton | Eugene, Or. | Los Angeles | Norfolk | San Francisco | Wilmington, NC |
| Charleston | | | | | |

*Additional cities currently being added



SIERRA WEATHER INSTRUMENT CORPORATION
 P.O. BOX 771 NEVADA CITY, CALIFORNIA 95959 Telephone (916) 273-1391



**1060
WIND METER**

Ideal for portable use by weathermen, outdoorsmen, yachtsmen, farmers, truckers, forest rangers, parachutists, glider pilots and kite flyers, or anyone interested in wind measurements. Simple and accurate direct reading meter. Two scales are provided for maximum readability and accuracy. Shipping weight, 1 lb.

1060 WIND METER



**1061
WIND SPEED INDICATOR**

A smart and practical instrument accurate enough for use by weathermen. Inclined-vertical curved scale provides amplified readings at low wind speeds for easy reading. Roof-top sensor looks like a modern weather vane and can be mounted up to fifty feet from the indicator. The indicator unit is perfectly suited for installation indoors or out on any stationary vertical surface. Shipping weight, 2 lbs.

**1061 WIND SPEED
INDICATOR**



**5020
WEATHER VANE**

A rugged cast aluminum traditional weather vane. Vane is 18½" in length and entire unit is 24" high. Adjustable mount permits installation on any roof pitch. Shipping weight, 10 lbs.

5020 WEATHER VANE



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