EXHIBITORS

SECTION

Proceedings, Eastern Snow Conference, V. 28, 40th Annual Meeting, Toronto, Ontario, June 2-3, 1983

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GAMMA INSTRUMENT COMPANY

The Adirondack Type Snow Density Gage has been used for snow sampling by the National Weather Service and the U.S. Geological Survey in the shallow snow packs of the eastern United States since the early 1960's.

The tube's maximum capacity for depth of snow is 60 inches(150CM), while the scale will weigh up to 25 inches(62CM) of water equivalent. By converting weight into vertical measurement by conforming the cutter opening to a known factor of the scale, direct readings of snow density will be obtained in inches or centimeters of water.

In tests conducted by the Soil Conservation Service and the Atmospheric Environment Service the Adirondack Gage was judged to be "very accurate".

Pictured below are the English or "Imperial" type, reading in inches and the new Metric type reading in centimeters.

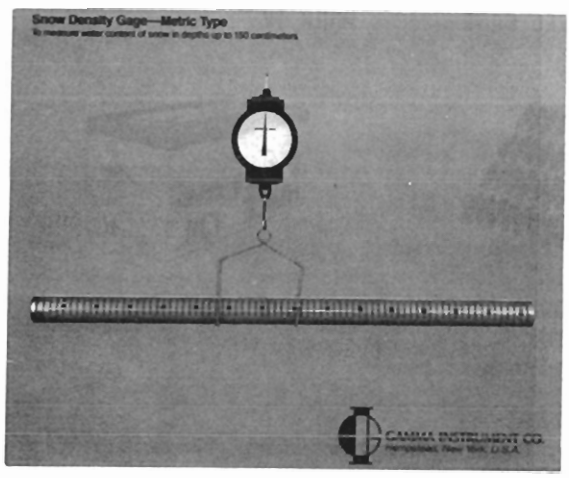
The complete unit consists of:

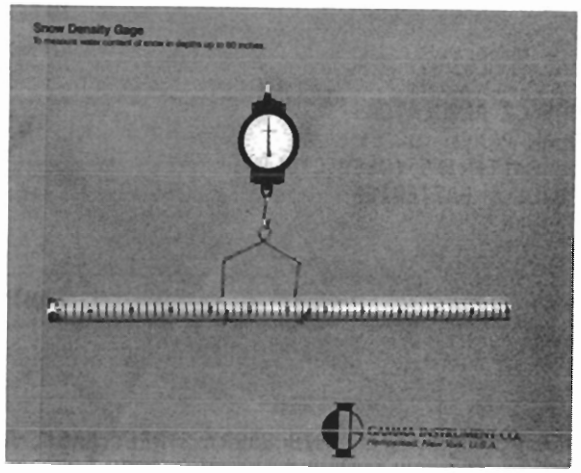
- The fiberglas tube (5 foot or 150 centimeters long)
- Stainless Steel serrated cutter (40 tooth)
- Tension scale calibrated in inches or centimeters of water
- Brass cradle with non-slip covering
- Wooden handle for driving
- Protective Cork

The retail price is $ 520.00 U.S.funds

Please call or write:

Mr. John G. Schurr
Gamma Instrument Company
52 Chasner Street
Hempstead, New York 11550
USA





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INFOSCAN® by Infrascan

....Suppose you wanted to identify a cell structure, or measure an area of land, or compare the heat loss in a factory from one year to another. How would you do it? How long would it take? With the INFOSCAN® image processing system, you'd get immediate results. Along with being simple to use and space efficient, the INFOSCAN® identifies, measures and compares.... right in your office.

The INFOSCAN® is an image processor you can use. It can measure areas or distances. Isolate selected gray values. Overlay and compare scenes and maps in any scale. It can process any image; satellite pictures, maps, photgraphs, video tapes, or any other hard copy data in print or transparency form.

What's more, the INFOSCAN® can process live television pictures or video cassettes.

Contour synthesis allows for enhancement of images in a "Real Time" live mode.

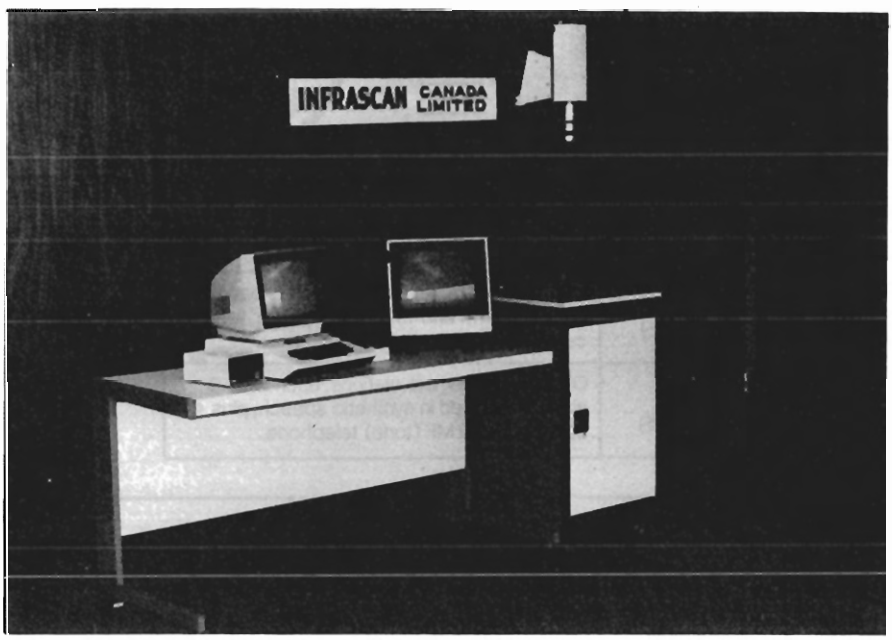
No matter what you want to measure, from microbes to mountains, the INFOSCAN® gives you identification levels - quickly and easily.

Irregular shapes in any scale can be measured and counted. Change detection allows minute changes in scenes to be made instantly visible.

APPLICATION:

Environment, energy conservation, medicine, hydrology, mineral resources, military, forensics..... These are just a few of the areas which demand, and can use the efficiency and flexiblity of the INFOSCAN®.

In the Forest Industry alone the INFOSCAN® can provide change detection, disease detection, fuels inventory, map update, measurement, to name just a few.



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ICELERT A Computer-Based System for Runway and Highway Ice Prediction

PURPOSE The Icelert System, manufactured by Findlay, Irvine Ltd. of Scotland, is designed to monitor runway and highway conditions and give early warning of ice forming on their surfaces. This system is designed to monitor: surface and air temperature; wind speed and direction; dew point; and surface condition (wet, dry, ice/snow). Once the data is interrogated the system can provide up to two hours advance notice of ice formation while accounting for the presence of salt, urea or chemicals. The benefits to be derived from such a system are: economy, smaller quantities of de-icing chemical; safety, it helps prevent surfaces becoming ice-covered without warning; and environmental protection, smaller amounts of chemicals will have a reduced impact to the environment. Applications of this system include:

AIRPORTS With the probes placed in the runways, taxiways and ramps, flush with the surface, the Airfield Operations crew can maintain a constant vigil on the condition of their runways. Data transmitted to the master station via land line or radio link will be presented on a visual display unit or on a printer and thus provide up-to-date information as well as historical trends. One such system was installed at the Toronto International Airport for a Transport Canada evaluation during the winter of 1982. Many airports throughout England and Europe have had systems installed.

HIGHWAYS Those in charge of winter maintenance on highways face a very difficult task, especially in areas where conditions vary. They know it is far more effective to spread salt before ice forms, but it is often difficult to know just where icing conditions are going to develop. An Icelert System consists of a number of out-stations linked by dedicated lines to a central master-station. There, a micro-computer analyses the data, displays it in graphical and tabular form, and generates a visual/audible alarm if the situation becomes critical. Because the master station has a permanent link to each out-station, the information it displays is constantly updated.

OTHER APPLICATIONS The Icelert systems are designed to keep vital services operating during severe winter weather. It does this in a similar manner as mentioned above or by automatically switching on heat whenever necessary and switching the heat off when the danger of icing has passed. These applications include railway points, highway ramps, bridge decks, roofing gutters and footpaths. Not only does this application keep services running, but it does so at far lower costs than can be achieved by manual or simple thermostatic control.

INFORMATION For additional technical information, Icelert is marketed in Canada for Findlay, Irvine Ltd. by Aviation Electric Ltd. as listed below.

Bendix Aviation Electric Ltd

P.O. BOX 2140,
ST. LAURENT, QUE. H4L 4X8

Findlay, Irvine Ltd.

Bog Road
Penicuik
Midlothian.
Telephone: 0968 72111
Telex 727502

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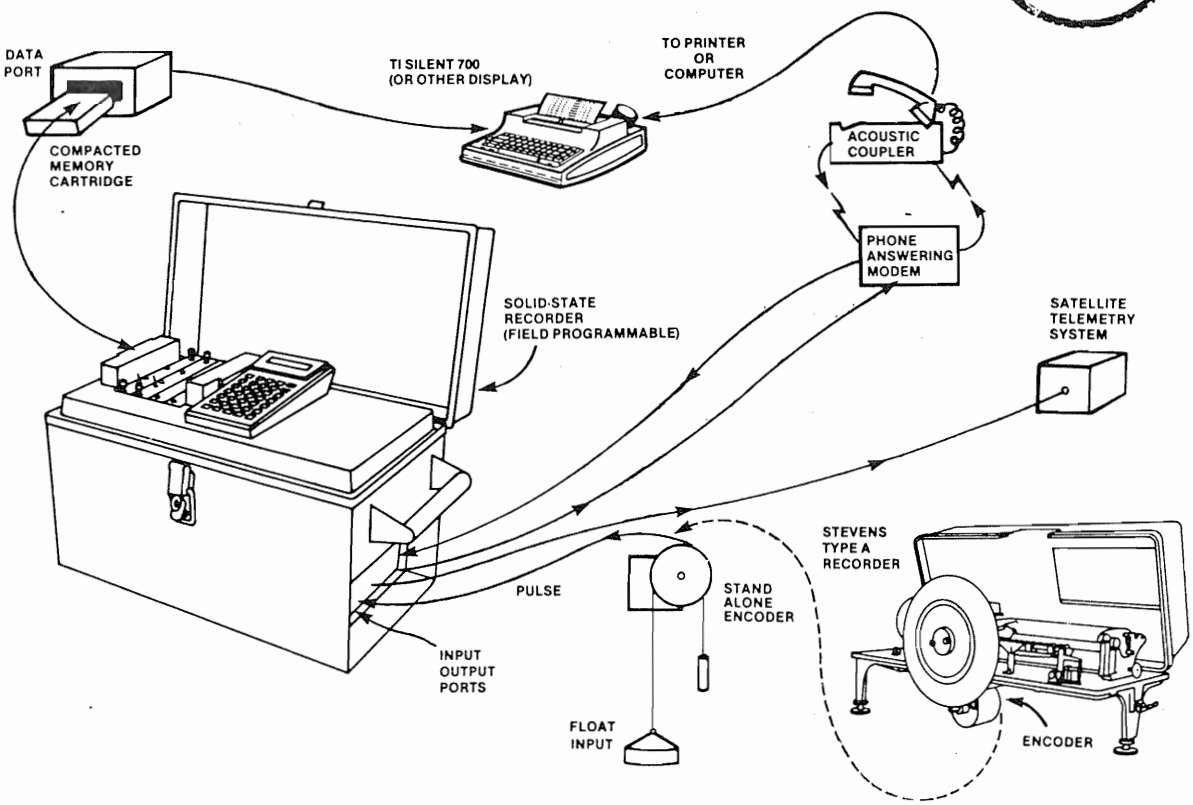
STEVENS WATER RESOURCES PRODUCTS

LEUPOLD & STEVENS, INC.
P.O. Box 688, Beaverton, Oregon 97075, U.S.A.
Cable LEUSTEV, Beaverton
Telex 15-1227 Telephone 503/646-9171

QUALITY & SERVICE— because you count with Stevens



Combining 75 years of experience with innovative new technology to simplify your monitoring now...and in the future

Many users require sophisticated, complex monitoring systems, while others need only simple recording installations. Stevens Instruments has developed a versatile data compaction system that offers unusual benefits to *both* kinds of users. The system starts with a basic one- or two-input recorder. Later, as your needs increase, your system can be expanded for other functions (gate position, alarm, etc.)

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allows easy program changes.

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provides "Human-Touch" Assisted Programming, with an alphanumeric system that leads you through the proper programming sequence with "prompting" words and questions. This permits non-technical personnel to accomplish this function with minimum training.

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Telemetering Systems

PERGAMON PRESS CANADA LTD.

HANDBOOK OF SNOW

Principles, Processes, Management and Use

Edited by D M GRAY & D H MALE, University of Saskatchewan, Saskatoon

The only comprehensive, fully-illustrated handbook on the physical principles and management of snow, snowfall and snowcover.

Snow is a precious resource as well as a potential calamity. With its arrival, modes of travel, working and living are suddenly transformed. The HANDBOOK OF SNOW is the first textbook to offer students and professionals the practical information and techniques they need concerning snow.

An Outstanding Academic Book 1982/83

"A valuable reference...there is no other work where so much information on snow, its origin, distribution, and impact is available.

CHOICE

"...could be subtitled "Almost Everything You Wanted to Know About Any Possible Practical Aspect of Snow". The book, engineered by a committee of the National Research Council of Canada, consists of a series of individual chapters written by a wide variety of authors and will tell you which gases absorb onto snow crystals, how snow ridging will influence your crop yield, how to keep your railroad switches clear, how long the studs on your snow tires will last, and the composition of your cross-country klister wax (did you know that early recipes for ski wax included bacon rind, old bicycle tires, and gramaphone records?)...The organizers, editors, and authors involved in the project are to be commended.

ARCTIC

"The book can be well recommended to the general reader in Canada especially since snow is a coast-to-coast phenomenon, and the reader is bound to find several aspects of interest to him. For the educator, the text could well provide an excellent base for several courses in "natural science" especially since each chapter has an extensive bibliography which can serve to extend the studies outlined therein. Insofar as physical scientists are concerned, the astute reader can find a number of suggestions for further applied research in almost every chapter.

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No other book offers the complete coverage of practical information the HANDBOOK OF SNOW does.

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