

A SENSIBLE SALE

With the Poetry Omitted



You have been bombarded with all kinds of sales, but here is SOMETHING DIFFERENT. I have no goods on consignment, none damaged by fire, smoke or water, and no shop worn goods or seconds. Just a good clean stock of standard makes, bought this last spring.

Dutch Auction

During this sale there will be a suit of No. 40 size, and marked on the first day at \$24.00, to be reduced in price every day till sold. Reductions \$2.00 per day. Keep your eye on this and get it as low as you can, but don't wait too long.

Underwear

- \$1.30 Stanfield's green label, now 98c
- \$2.00 Stanfield's red label, now \$1.65
- \$2.50 Stanfield's blue label, now \$1.98
- \$3.25 Stanfield's Combinations, now \$2.45
- \$4.75 Stanfield's Combinations, red label, now \$3.98
- \$2.50 Penman's 95 All Wool Shirts and Drawers \$1.95
- A snap in Woolen two-piece Suits at, each 69c

Socks

An acceptable present as no one ever complains of having too many.

- \$1.25 values at 89c
- \$1.00 values at 75c

Caps

- With and Without Tabs.
- \$1.50 values, Sale price \$1.15
 - \$2.00 values, Sale price \$1.69
 - \$2.50 values, Sale price \$1.95
 - \$2.75 value, Sale price \$2.25

Sweaters

All Sweaters reduced at this sale.

If you are familiar with men's clothing and furnishing values, no superlatives are needed to show you that this is a Real Sale.

Working Shirts

- \$3.00 Tooke's Grey Flannel, best quality, now \$2.45
- \$2.50 Tooke's Working Shirts, now \$1.95
- \$1.75 values in Working Shirts, now \$1.45
- \$2.50—A lot of heavy blue flannel, with two pockets \$1.95
- \$2.50 Tooke's Railroad Shirts \$1.95

Braces and Belts

A pessimist is said to be a man who wears both. Whether a pessimist or optimist we can supply you.

- Braces, formerly 75c and 50c, now 49c and 39c
- Belts, formerly 75c and 50c, now 49c and 39c

Pants

- A good selection in Dress and Working Pants.
- \$2.25 values, now \$1.75
 - \$2.75 values, now \$2.25
 - \$3.50 values, now \$2.95
 - \$4.50 values, now \$3.85
 - A snap in an English Blue Serge, was \$7.00. Now \$5.95
 - A good selection of Cuff Links, Pins, etc., at reduced prices.

Men's and Youths' Clothing

- \$35.00 Suits, Sale price \$27.50
 - \$30.00 Suits, Sale price \$25.00
 - \$24.00 Suits, Good quality blue serge, Sale price \$19.50
 - \$18.50 Suits, Sale price \$14.75
- I intend, early in the new year, to open up a new department of this business, and it's in preparation for that event that this sale is taking place. Here's an opportunity to get Christmas presents that you will not have to apologize for later.

Dress Shirts

- Tooke's, Forsythe and Imperial. Here's something HE will appreciate.
- \$1.50 value, now 98c
 - \$1.75 values, now \$1.25
 - \$2.00 values, now \$1.65
 - \$2.50 values, now \$1.95
 - \$3.00 values, now \$2.45
 - \$3.50 values, now \$2.95

Neckties

These are always expected and ours are the kind that make friends.

- \$1.00 values, now 75c
- \$1.25 values, now \$1.00

Also a very neat range at 50c.

Gloves

- Best Makes.
- \$2.25 values, now \$1.85
 - \$2.50 values, now \$2.10
 - \$2.85 values, now \$2.25
 - \$3.00 values, now \$2.48

Sale Starts Saturday, Dec. 16

Store Open 8 a.m. to 11 p.m.

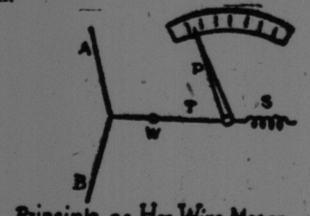
PHIL'S MEN'S SHOP, 194 Union St.

FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis
Formerly Technical Electrical Expert For U. S. Government

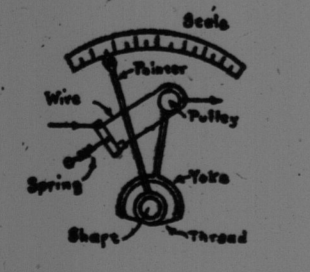
Lesson No. 182
RADIO MEASURING INSTRUMENTS
(All Rights Reserved by United Feature Syndicate. Reproduction Prohibited.)
Many of the ordinary types of voltmeters and ammeters such as are used for making measurements of direct currents and low frequency alternating currents are not suitable for making measurements at radio frequencies. Probably the most used meter in a radio station is the radio frequency ammeter connected in the antenna system and which is important in tuning the set for best radiation. The hot wire ammeter is probably the commonest type of ammeter employed for this purpose. The principle on which the type of meter functions is shown in the diagram.

"A B" represents a fine wire or strip of metal which is made small in cross section for low reading meters and larger for higher scale meters. When current flows along this wire, the wire is heated and as a result expands laterally. The spring "S" tends to pull on the wire through the thread "T" which takes a turn around the shaft of the pointer "P" before connecting to "A B" at "W". The greater the current flow through "A B" the greater the release towards the spring and the greater the swing of the pointer across the scale which is calibrated to read directly in amperes.



Principle of Hot Wire Meter.

While the hot wire ammeter depends for its action upon the heating effect produced by the current flowing in the wire and is not affected by variations in frequency, it is a rather delicate instrument and requires careful handling and frequent adjustment to zero. Another form of radio frequency ammeter is the thermocouple type, which consists of a junction point made up of two unlike metals which is in contact with a wire through which the antenna current flows. The wire is heated by the current flowing through it and the heat transferred to the junction point of the two unlike metals. The terminals of the two pieces of different kinds of metal which constitute the thermo-junction are connected to some form of sensitive indicating meter such as a millivoltmeter of the moving coil type. When the junction point of the two metals is heated a difference of potential is created which causes current to flow through the millivoltmeter resulting in a deflection of the needle. The greater the heating of the thermo-junction the greater the difference in potential created and the greater the deflection of the meter needle.



Type of Hot Wire Ammeter.

The heat developed varies as the square of the current and the voltage at the thermo-junction varies about as the heat developed so that the scale on the thermo type meter does not have uniform divisions, but is more open at the lower end of the scale.

For the measurement of filament voltage and current of vacuum tubes, operated from a direct current source, meters of the moving coil type are usually employed. This type of meters consists of a coil of wire suspended between the poles of a permanent magnet so that the coil may rotate. When current flows through the coil a magnetic field is set up which opposes the field of the permanent magnet and forces the coil to rotate slightly on its axis. The greater the current through the moving coil the greater the rotation of the coil and consequently the greater the movement of a pointer connected to the coil. Meters of this type are universally used for direct current measurements.

CHILDREN'S AID.

The monthly meeting of the Children's Aid Society was held last night in the Children's Aid Society, Garden street, with the president, A. M. Belding, in the chair. The report showed that since the last monthly meeting two children had been committed to the society until such time as the father finds a home for them to the satisfaction of the society. Besides these, five children have been admitted to the Children's Home, making a total of twenty-seven now in the care of the society. Fifty-seven visits were made and several new cases investigated. Two inquiries from the United States had been received in cases involving children, and these had been satisfactorily answered. One in-quiry of the same kind came from Edinburgh, Scotland.

MARTIN APPOINTED COMMISSIONER OF MANITOBA POLICE

(Canadian Press Dispatch.)
Winnipeg, Dec. 14.—Col. H. J. Martin, formerly a member of the Royal Canadian Mounted Police and Inspector of the Dauphin division of the Manitoba Provincial Police since 1920, has been appointed commissioner of Manitoba Provincial Police, according to an announcement here today by Hon. N. W. Craig, attorney-general. Col. Martin succeeds Col. J. G. Hattay, who was dismissed following the failure of the provincial police force to capture bandits at Pipestone.

BOY IS KILLED BY TRUCK IN HALIFAX

Halifax, Dec. 14.—James Marsh, thirteen, who was sent here from Sydney a week ago as an inmate of St. Patrick's Home, was run over and killed by a motor truck in front of the Home this morning. Marsh was riding on the track which was returning to the Home after delivering refuse, and he stepped off before it had come to a standstill. He slipped on a patch of ice and fell under the truck, the rear wheel passing over his stomach. The youth lived long enough to receive the last rites of the church, administered by Father Martin, of St. Patrick's.

CIVIC SERVICE OFFICERS.

Election of officers for the coming year was completed at the regular meeting of the City Public Service Employees Union, No. 16976, last evening at 82 1-2 Prince William street. Three candidates were admitted to membership. The election of officers resulted, as follows: President, A. C. Davidson; vice-president, Albert Kirkpatrick; financial secretary, Percy Foot; treasurer, Edwin E. Marshall; recording secretary, William Thompson; guardian, James Price; audit committee, E. Stevens, Joseph Kirvan, George Akerley. Delegates to the Trades and Labor Council, E. E. Marshall, Garret Ward, F. Foot, W. Thompson, David Lavigne.

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10 for 15¢
25 " 35¢

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BROAD COVE QUEEN MCBEAN PICTOU VICTORIA
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That HARD BURNING SOFT COAL—\$13.00 Screened, for Kitchens or Grates or Hall Stoves—\$12.00 Run of Mine. Excellent for Furnaces. Delivered anywhere in St. John or Fairville.
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\$5.25 per 1-2 Ton
\$10.50 per Ton
DELIVERED CASH.

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BEST GRADES WELL SCREENED. Hard Wood, Soft Wood, Kinkling Dry and Sound.
Good goods promptly delivered.
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KINDLING WOOD—30 per load, south of Union street—Haley Bros. Ltd., City.

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DRY HARD AND SOFT WOOD—Quarter Cord Loads.
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Our facilities for handling cut wood enable us to give you satisfaction in wood that is DRY.
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Be sure and turn to the RIGHT.

Broad Cove Coal

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American Anthracite, Welsh Stovoids, Scotch Anthracite.
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