



Transmitting plant at 3YA, Christchurch. This station is noted for the clarity of its transmission. One suggested reason for this is the particularly good earth offered by the moist soil of Christchurch.

—Photo., Webb.

meters for observing the functioning of the various circuits and dials for the tuning controls.

Immediately to the left of the transmitter is the power panel, for controlling the power applied to the different circuits. On the front are meters, rheostats, and push-button switches. The whole of the operation of starting up is performed by push-buttons, the application of power to the various circuits being automatically controlled in their proper sequence by relays within the power panel.

The antenna system is swung between two steel towers, one of 104 feet height, erected on the corner of the building, and the other of 154 feet height, erected on the ground at the rear of the building. The antenna is of a four-wire flat top "L" type, directional, north-north-east.

Most Convenient Station.

TAKING all things into consideration, 3YA is, perhaps, the most conveniently equipped station of all the Radio Broadcasting Company's stations, as it is the only one where it has been pos-

sible to locate studio and transmitting room adjacent to each other.

The studio and lounges are located on the third floor of the building. Here furnishing of black and silver contrast well with the rose and silver hangings. The piano and tables are rosewood, and rose lampshades and cushions complete the colour scheme. The ladies' lounge is a dainty room in blue and grey. Blue upholstered grey chairs and blue and grey carpet with a few pieces of dull blue pottery make for an air of restfulness.

The smoking lounge is furnished in Jacobean style. On a multi-coloured carpet are plain fawn velvet chairs and chesterfield, orange shaded stand lamps, oxidised brass palm bowls, and smokers' stands, which finish the furnishings of this room. The walls are adorned with pictures of New Zealand scenery, and a royal stag's head.

Station 4YA.

MANY of the older listeners will remember Station VLDN at the New Zealand and South Seas Exhibition. Previously Dunedin had a private station known as 4YA, and when the Broadcasting Company took this over in October, 1925, it was rebuilt and transferred to the site at the exhibition in time for the opening in November. After it had been in operation for a few weeks it was increased in power to 500 watts, and Western Electric speech input equipment added. When at the exhibition site the transmitter was housed in a small building at the rear of the Festival Hall, the antenna being supported between two 100ft wooden masts placed on either side of the transmitter room. Lines were run to the band rotunda, festival hall, and other portions of the exhibition, and broadcasts were put on the air from there as well as from a small studio room attached to the transmitter room. At the conclusion of the exhibition in May, 1926, the entire station was dismantled and removed to its present premises, 219 Moray Place, Dunedin, where it was reinstalled.

Considerable structural alterations have been effected, in that provision has been made for duplicate studios and comfortable lounge appointments.

What Set shall I Buy?

This question is being daily asked throughout N.Z. The enquirers feel somewhat in doubt as to what is really best to buy.

Our Expert Advice is Offered Free.

Think over the following, and decide for yourself. Or if still in doubt, write us a personal letter, asking us to help you.

1. YOUR RADIO MUST BE EFFICIENT.

JOHNS, LTD., make their own Radio sets, and improvements have always been embodied whenever possible. Only excellent parts are used, enabling the longest guarantee to be given.

2. PRICE MUST BE REASONABLE.

JOHNS, LTD., make sets from the pick of the world's apparatus. Ask any Radio engineer, and he will confirm this, and probably tell you that the sets will last for many years. Yet the prices are, if anything, lower.

3. GUARANTEE IS ESSENTIAL.

To-day RADIO SETS, if built of good materials, CAN BE GUARANTEED for a long period. A short or no guarantee can be accepted as a definite indication of inferiority of the set in use.

4. SERVICE MUST BE OBTAINABLE.

Built in our own factory, it naturally follows not only that repairs, if ever necessary, can be promptly and efficiently executed, but that the cost will be extremely low. Dealers know only too well that many sets are scarcely capable of repairs at all—certainly not at a reasonable price.

5. FIRM MUST BE PERMANENT.

It is scarcely necessary to allude to the large number of firms who have dabbled in RADIO and then sunk into oblivion. Guarantees, promised service, etc., are worthless from a concern no longer in business.

JOHNS, LTD., have been Radio Dealers for eight years—and will be still in it eight years hence.

6. WHAT IS THE BEST TYPE OF SET?

This depends on various conditions. Yet we believe we are the only firm in New Zealand who offer a full range of sets, suitable for any conditions that arise. We recommend Neutrodyne sets in some places—they are almost useless in others. We offer special sets where only dry batteries are possible. Contrast this with the agent who has only one type of set to offer, and sells to anyone, regardless of suitability. We build no less than 14 types of sets for ordinary purposes. We have also built a number of special sets for hospital and other special purposes.

7. SINGLE DIAL CONTROLS.

These sets are distinctly inferior in efficiency, the loss usually being made up by using more valves. Otherwise you will find single control sets have other small unobtrusive knobs which do the same work as the larger and more honest dials of the ordinary set. If upkeep is of no importance, any kind of inefficient control will do, of course.

8. ELECTRIC SETS.

These will undoubtedly come, but at present they are not as efficient as ordinary sets, as most valves used are easily damaged, and improvement is necessary for real satisfaction. Electric sets will be right in about three years.

9. SHIELDED SETS.

Shielding is used mainly to make sets selective—that is, able to pick and choose when a large number of stations are sending at the same time. In U.S.A. selectivity is one of the first qualifications of a set—but there are hundreds of stations crowded together in U.S.A. In New Zealand we have about four. In New Zealand shielding loses much of its attractiveness, since a shielded set usually requires seven valves to get the same results as four or five in an unshielded set. Which goes to show that the manufacture of sets in New Zealand, to suit our own special New Zealand conditions, more than justifies itself.

10. ECONOMY IN MAINTENANCE.

As a customer put it recently "My set is a glutton on batteries." If your set is to cost you three or four times as much for batteries, surely it is dear at any price. In designing our sets this feature has been carefully watched, so that, apart from giving the utmost performance for each valve used, running costs are kept to an absolute minimum.

11. DO YOU WISH TO SUPPORT LOCAL INDUSTRY?

We employ an ever-increasing staff in our factory, for manufacturing radio and radio only. The number thus employed is 11 at present, quite independent of our usual shop and office staff. We have ample room for extension and further employees.

Our 64-page Radio List, fully illustrated, will be sent Post Free to any address.

JOHNS, LTD., Chancery St., AUCKLAND

Self-Adjusting!

For best performance your valves require a variable filament control to supply the definite current they need, despite L. T. battery variations. AMPERITE is the only self-adjusting and automatic filament valve control that does this. Takes the "guess," inconvenience and unsightliness out of panel rheostats. Simplifies wiring, panel design, and tuning. Prolongs valve life. Order by name. Accept nothing else. For sale by all dealers. Price 6/- with mounting.

N.Z. Selling Representatives:
ABEL, SMEETON LTD.
15 Customs Street E., Auckland.

AMPERITE
The "SELF-ADJUSTING" Rheostat