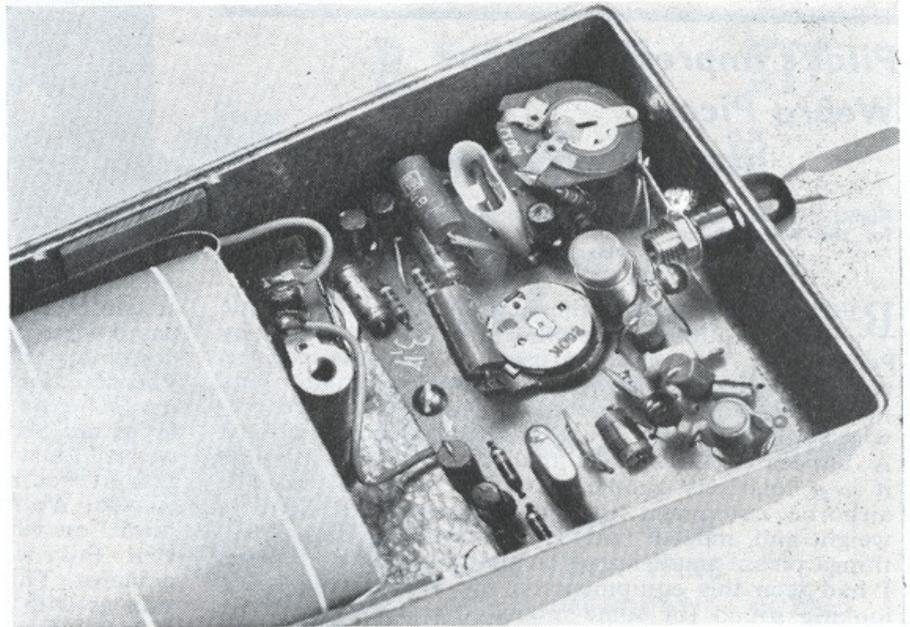




Left: the complete Picco outfit showing the latest temperature stabilized receiver and improved magnetic actuator.



Right: the inside of the Picco transmitter. Circuit is crystal controlled on 27.125 Mc/s and operates from two 4½ volt torch batteries.

wired to together. No switch is provided. The aerial lead terminates in a socket into which a whip aerial, of .032 in. steel wire, is plugged.

The magnetic actuator is mounted on a flat base with two mounting holes and is factory-sealed in a white plastic case. The drive spindle oscillates through approximately 30 degrees each side of neutral and terminates in a soldered-on nipple. A similar fitting is provided for fixing to the rudder torque-rod and a short length of rubber tube is supplied whereby a flexible coupling can be made between the two.

**Manufacturer**

The Picco is manufactured by Fein und Modell Technik, Berlin 36, Oranienstrasse 6, West Germany, who are well-known for the Webra model diesel and glowplug engines they have been producing for the past fifteen years.

**British Importer**

Model Aircraft (Bournemouth) Ltd., Norwood Place, Bournemouth, Hants.

**Price £34 3. 9.**

**Physical & Technical Data**

**Transmitter**

Size: 6 x 3½ x 2½ in.  
 Construction: Diecast aluminium case with removable rear cover, Crackle enamel finish.  
 Weight: 19 oz. including batteries.  
 Aerial: 30 in. extended, 7½ in. retracted.  
 Power Supply: 9 volts. Two 4½ v. flat flashlight batteries (e.g. Ever-Ready 1289 or Exide F.40).  
 Tone Frequency: 3400 c.p.s.

**Receiver**

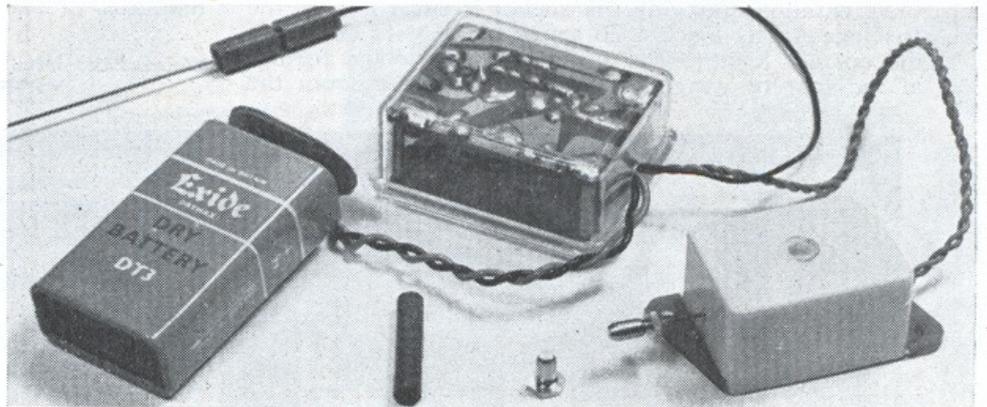
Size: 1.66 x 1.33 x 0.93 in.  
 Construction: Transparent plastic case with sealed lid.  
 Weight: 1.1 oz.  
 Aerial: 26 in.  
 Power Supply: 9 volts (e.g. Ever-Ready PP3 or Exide DT3).

**Actuator**

Size: 1.66 x 0.88 x 0.80 in. including mounting lugs.  
 Weight: 0.9 oz.  
 Output Drive: Semi-rotary through approximately 60 degrees.  
 Power Supply: via receiver.

**Pilot's Impression . . . . . on next page**

Total airborne weight of the Picco system is only three ozs. A single DT3 9-volt battery supplies both receiver and actuator.



## ... in the air.

### Pilot's impression of the Webra Picco

BY BUTTON MAN

Right: "Picconinny", Button Man's purpose built test vehicle for the Webra Picco. 36 in. span model has all sheet structure including wings. Cox .010 power.

RECEIVED a set of the new Webra Picco single channel equipment the other week, kindly loaned by Peter Chinn. This outfit consists of a relayless receiver, of double deck construction, magnetic actuator and pulse transmitter. The receiver and actuator are pre-wired with a clip for 9v. PP3 common battery supply. A noticeable absence is that of a switch although it is a relatively simple matter to wire one in. The airborne equipment is very compact and light in weight and, indeed, intended for small models. Small things please small minds so they say and as soon as I had seen this equipment on the Wednesday, I was looking round for some model to install it in. With nothing really suitable available I decided to build a small powered sailplane type model for testing the gear. The plane was designed on the Thursday, built on the Friday and flown on the Saturday, which is not bad going even in these days of prefabrication etc. Of course the fuel proofer was not completely dry but patience was limited and it was hoped to fly it the next day at the Airtech rally—and we did. This 36 in. all sheet model is powered by a Cox Tee Dee .010 kindly loaned by Vince Redfern—well the balsa wood was mine—and this provides ample power. It is a real delight to fly and very suitable for small field flying. Obviously it is not the model for windy days but ideal for those balmy summer evenings when you can recline in the deck chair as the "Picconinny" (just thought of that name) sails overhead. Should there be any thermals about you will probably be able to stay up for quite a while. The proportional rudder obtainable from the magnetic actuator gives excellent smooth turns and the high mounted engine prevents too much "ballooning" as she turns into wind under power. Altogether a most enjoyable and relaxing experience flying this one—an ideal antidote to the twin engine variety.

The radio equipment has performed perfectly to date with no adjustments required of any sort. A vertical plug-in whip aerial is supplied with the outfit but this was not used on the Picconinny as it would have entailed epoxying the socket irremovably to the fuselage. In its place a 20 s.w.g. piano wire aerial, of the correct length, was sewn to the fuselage former at the rear of wing. Equally, the corrector from the

actuator to the torque rod was not used, normally a piano wire rod is used but I substituted a piece of  $\frac{1}{8}$  in. dowel for this connected by a piece of rubber tube. The actuator is simplicity itself to install, two screws into some hard balsa blocks, and the receiver and batteries are packed in foam rubber. Should you decide not to fit a switch, then the battery must be clipped on and inserted before the wings can be put on and engine started. We made the mistake of switching the transmitter on when preparing for the first flight thinking that this would reduce the consumption of the actuator. This proved to be an entirely false assumption as with no signal (full left rudder) there is only a drain of a few milliamps. With full signal on about 70 milliamps is drawn and when pulsing at a mean neutral rudder position the consumption reduces to 37 milliamps. So, keep the transmitter off until you are ready to fly.

The transmitter handles very nicely and the dangling ground plane from the bottom of the case does not get in the way. Movement of the control knob on the transmitter exceeds 90° in each direction and for the last 20° or so gives full left and right rudder respectively. Throughout the intermediate positions rudder control appears to be progressive in action and this method of rudder only control has much to commend it.

It is a habit of mine, when launching and flying a model, to keep the transmitter aerial retracted during the launch—this is the result of the swamping of some receivers with the transmitter aerial fully extended. Now, although there was no sign of swamping with the 'Picco' outfit, I launched the model on one occasion and with it climbing away pulled the top of the aerial to extend it. The aerial is only held into the case with a spring clip and the whole aerial came out in my hand, fortunately it went back into its socket easily and no harm was done. It is worth remembering this point—you may not be so lucky in replacing it. All told the Webra 'Picco' is a delightful small S/C outfit and increases the probabilities of backyard flying.

Webra Picco installation in "Picconinny", showing receiver well protected and magnetic actuator.

