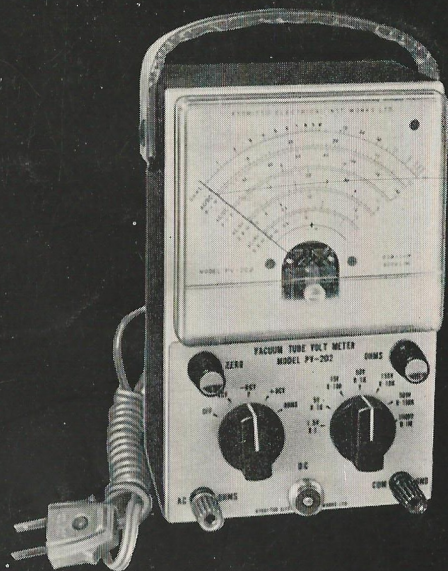


**MODEL**  
**PV-202**

SPEC. NO. 3010

INSTRUCTION MANUAL

**Vacuum**  
**Tube**  
**Volt**  
**Meter**

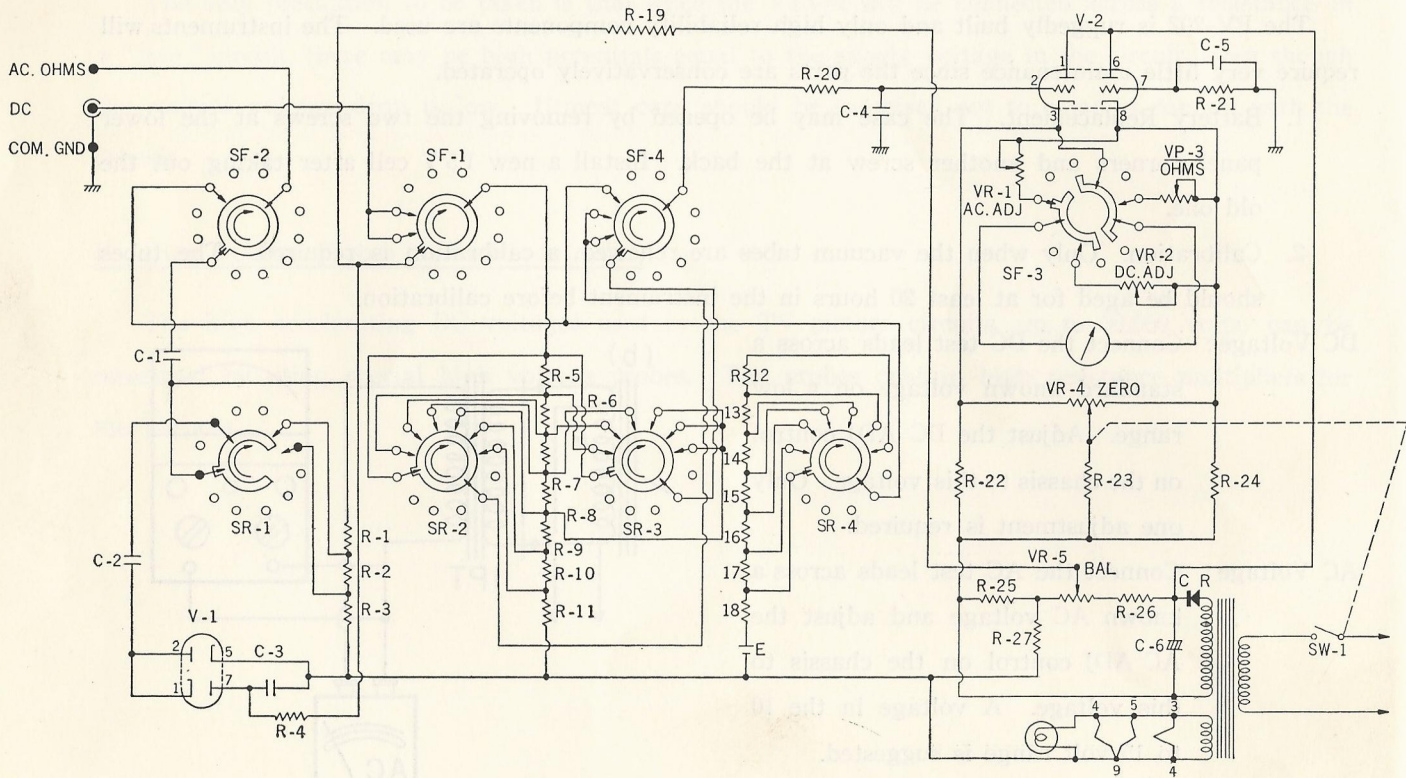


***Kyoritsu***

ELECTRICAL INSTRUMENTS WORKS, LTD.  
TOKYO JAPAN

## SPECIFICATIONS :

|                         |   |   |
|-------------------------|---|---|
| DC VOLTAGE              | : | 0-1.5-15-50-150-500-1,500 V full scale<br>(15 KV or 30 KV with special probe)                             |
| AC VOLTAGE: (Sine wave) | : | 0-1.5-5-15-50-150-500-1,500 V rms full scale  |
|                         | : | (Peak-to-Peak) 0-4-14-40-140-400-1,400-4,000 V  |
| RESISTANCE              | : | 0-1,000-10,000-100,000 ohms, 0-10-100-1,000 Meg   |
| INPUT RESISTANCE        | : | DCV: 11 Meg (1 Meg in probe)  |
| ACCURACY                | : | DCV: $\pm 3\%$ of full scale<br>ACV: $\pm 5\%$ of full scale<br>OHMS: within $\pm 3\%$ total scale length |
| DECIBELS                | : | -20 to +65 db (0 db = 1 mW in 600 ohm line)   |
| ZERO CENTER             | : | For adjusting FM detectors  |
| AF-RF RESPONSE          | : | $\pm 3\%$ : 30 cps to 500 KC  |
| (at terminals)          | : | $\pm 10\%$ : 15 cps to 10 MC  |
| METER SENSITIVITY       | : | 195 $\mu$ A DC  |
| TUBE COMPLEMENT         | : | 1-6 AL 5/EB 91      1-12 AU 7/ECC 82  |
| POWER SUPPLY            | : | AC 50/60 cps; 100, 117 or 230 V as specified; 10 W  |
| ACCESSORIES             | : | DC test lead with probe<br>AC test lead with tips<br>COMMON test lead with tips                           |
| SIZE & WEIGHT           | : | 7½" × 5" × 3¾" (190 × 130 × 95 mm);<br>4 lbs (1.8 kg)   |



SCHMATIC DIAGRAM

## KYORITSU VTVM PARTS LIST

### Resistors :

|     |       |       |
|-----|-------|-------|
| R1  | 900 K | (1 %) |
| R2  | 320 K | "     |
| R3  | 150 K | "     |
| R4  | 22 M  | (3 %) |
| R5  | 7 M   | (1 %) |
| R6  | 2 M   | "     |
| R7  | 700 K | "     |
| R8  | 200 K | "     |
| R9  | 70 K  | "     |
| R10 | 20 K  | "     |
| R11 | 10 K  | "     |
| R12 | 9 M   | "     |
| R13 | 900 K | "     |
| R14 | 90 K  | "     |
| R15 | 9 K   | "     |
| R16 | 900   | "     |
| R17 | 90    | "     |
| R18 | 9.1   | "     |
| R19 | 88 M  | (5 %) |
| R20 | 3.3 M | "     |
| R21 | 10 M  | "     |
| R22 | 220 K | "     |
| R23 | 100 K | "     |
| R24 | 270 K | "     |
| R25 | 22 K  | "     |
| R26 | 10 K  | "     |
| R27 | 100   | "     |

### Variable Resistors :

|     |               |                   |
|-----|---------------|-------------------|
| VR1 | 10 K, AC ADJ, | chassis           |
| VR2 | 10 K, DC ADJ, | chassis           |
| VR3 | 10 K, OHMS,   | panel             |
| VR4 | 10 K, ZERO,   | panel, with AC SW |
| VR5 | 10 K, BAL,    | rear              |

### Capacitors :

|    |       |                |
|----|-------|----------------|
| C1 | 0.05  | $\mu$ F (3 KV) |
| C2 | 0.05  | "              |
| C3 | 0.05  | "              |
| C4 | 0.005 | "              |
| C5 | 0.005 | "              |
| C6 | 20    | "              |

### Other Parts :

|      |                   |                                 |
|------|-------------------|---------------------------------|
| V1   | Vacuum tube,      | 6AL5/EB91                       |
| V2   | Vacuum tube,      | 12AU7/ECC91                     |
| PL   | Pilot Tube,       | 8 V                             |
| SR-1 | RANGE             |                                 |
| SR-2 | FUNCTION          |                                 |
| CR   | RECTIFIER,        | $\frac{1}{2}$ wave              |
| M    | Meter,            | 4 $\frac{1}{2}$ "', 195 $\mu$ F |
| E    | 1.5 V battery     |                                 |
|      | Test leads:       | DC AC COMMON                    |
|      | AC cord           |                                 |
| PT   | Power transformer |                                 |