






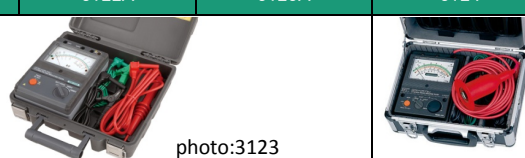





# Selection guide of Insulation Tester

| MODEL                                     | Analogue Insulation Testers  |                        |  |   | Analogue Insulation/Continuity Testers   |   |
|---|--|------------------------|--|---|--|---|
|   | 3165   | 3166                   | 3161A  | 3321A   | 3131A  | 3132A   |
| Appearance                                |  photo:3165 |                        |  |   |  |  |
| Range                                     | 1 range  |                        | 2 ranges   | 3 ranges  |  |   |
| Rated voltage (Max.effective scale value) | 500V(1000M $\Omega$ )  | 1000V(2000M $\Omega$ ) | 15V(20M $\Omega$ )<br>500V(100M $\Omega$ )         | 250V(50M $\Omega$ )<br>500V(100M $\Omega$ )<br>1000V(2000M $\Omega$ )           | 250V(100M $\Omega$ )<br>500V(200M $\Omega$ )<br>1000V(400M $\Omega$ )              | 250V(100M $\Omega$ )<br>500V(200M $\Omega$ )<br>1000V(400M $\Omega$ )               |
| Effective measuring ranges                | 1~500M $\Omega$  | 2~1000M $\Omega$       | 0.005~2M $\Omega$ (15V)<br>0.1~50M $\Omega$ (500V) | 0.05~20M $\Omega$ (250V)<br>0.1~50M $\Omega$ (500V)<br>2~1000M $\Omega$ (1000V) | 0.1~10M $\Omega$ (250V)<br>0.2~20M $\Omega$ (500V)<br>0.4~40M $\Omega$ (1000V)     | 0.1~10M $\Omega$ (250V)<br>0.2~20M $\Omega$ (500V)<br>0.4~40M $\Omega$ (1000V)      |
| Continuity ranges                         | -  | -                      | -  | -   | 2/20 $\Omega$  | 3/500 $\Omega$  |
| AC Voltage ranges                         | 600V   | 600V                   | 600V   | 600V  | -  | 600V  |
| Power source                              | R6P(AA) x 4  | R6P(AA) x 4            | R6P(AA) x 4  | R6P(AA) x 6   | R6P(AA) x 6  | R6P(AA) x 6   |
| Dimensions(L)x(W)x(D)mm                   | 90x137x40  | 90x137x40              | 90x137x40  | 105x158x70  | 185x167x89   | 106x160x72  |
| Weight(Approx.)                           | 330g   | 330g                   | 340g   | 520g  | 860g   | 560g  |

| MODEL                                     | Digital Insulation/Continuity Testers   |   |   |  |  |  |
|---|---|---|---|--|--|--|
|   | 3001B   | 3005A   | 3007A   | 3021   | 3022   | 3023   |
| Appearance                                |  |  |  |  photo:3021        |  |  |
| Range                                     | 2 ranges  | 3 ranges  |   | 4 ranges   |  |  |
| Rated voltage (Max.effective scale value) | 500V(200M $\Omega$ )<br>1000V(200M $\Omega$ )                                     | 250V(20M $\Omega$ )<br>500V(200M $\Omega$ )<br>1000V(2000M $\Omega$ )             | 250V(20M $\Omega$ )<br>500V(200M $\Omega$ )<br>1000V(2000M $\Omega$ )             | 125V(200M $\Omega$ )<br>250V(2000M $\Omega$ )<br>500V(2000M $\Omega$ )<br>1000V(2000M $\Omega$ )     | 50V(200M $\Omega$ )<br>100V(200M $\Omega$ )<br>250V(2000M $\Omega$ )<br>500V(2000M $\Omega$ )            | 100V(200M $\Omega$ )<br>250V(2000M $\Omega$ )<br>500V(2000M $\Omega$ )<br>1000V(2000M $\Omega$ )             |
| Effective measuring ranges                | 0~200M $\Omega$<br>(500/1000V)  | 20/200/2000M $\Omega$<br>(250/500/1000V)  | 20/200/2000M $\Omega$<br>(250/500/1000V)  | 0.1~20M $\Omega$ (125V)<br>0.1~40M $\Omega$ (250V)<br>0.1~200M $\Omega$ (500V)<br>0.1~1000M $\Omega$ | 0.1~20M $\Omega$ (50V)<br>0.1~20M $\Omega$ (100V)<br>0.1~40M $\Omega$ (250V)<br>0.1~200M $\Omega$ (500V) | 0.1~20M $\Omega$ (100V)<br>0.1~40M $\Omega$ (250V)<br>0.1~200M $\Omega$ (500V)<br>0.1~1000M $\Omega$ (1000V) |
| Continuity ranges                         | 200 $\Omega$  | 20/200/2000 $\Omega$  | 20/200/2000 $\Omega$  | 40/400 $\Omega$  | 40/400 $\Omega$  | 40/400 $\Omega$  |
| AC Voltage ranges                         | -   | 600V  | 600V  | AC 20~600V<br>DC -20~-600V<br>/20~600V   | AC 20~600V<br>DC -20~-600V<br>/20~600V   | AC 20~600V<br>DC -20~-600V<br>/20~600V   |
| Power source                              | R6P(AA) x 8   | R6P(AA) x 8   | R6P(AA) x 8   | R6P(AA) x 6  | R6P(AA) x 6  | R6P(AA) x 6  |
| Dimensions(L)x(W)x(D)mm                   | 144x93x61   | 185x167x89  | 185x167x89  | 105x158x70   | 105x158x70   | 105x158x70   |
| Weight(Approx.)                           | 460g  | 970g  | 990g  | 600g   | 600g   | 600g   |

| MODEL                                     | Analogue High Insulation Testers   |                         |   |   | Digital High Insulation Testers   |   |   |
|---|--|-------------------------|---|---|---|---|---|
|   | 3121A  | 3122A                   | 3123A   | 3124  | 3125  | 3126  | 3128  |
| Appearance                                |  photo:3123 |                         |   |   |                    |                    |    |
| Range                                     | 1 range  |                         | 2 ranges  |   | 4 ranges  |   | 6 ranges  |
| Rated voltage (Max.effective scale value) | 2500V(2/100G $\Omega$ )  | 5000V(5/200G $\Omega$ ) | 5000V(5/200G $\Omega$ )<br>10000V(10/400G $\Omega$ )          | 1k~10kV(100G $\Omega$ )<br>1000V(100M $\Omega$ )          | 500V(999M $\Omega$ )<br>1000V(1.99G $\Omega$ )<br>2500V(99.9G $\Omega$ )<br>5000V(1T $\Omega$ )         | 500V(999M $\Omega$ )<br>1000V(1.99G $\Omega$ )<br>2500V(99.9G $\Omega$ )<br>5000V(1T $\Omega$ )         | 500V(500G $\Omega$ )<br>1000V(1T $\Omega$ )<br>2500V(2.5T $\Omega$ )<br>5000V(5T $\Omega$ )<br>10000V(35T $\Omega$ )<br>12000V(35T $\Omega$ )                       |
| Effective measuring ranges                | 0.1~50G $\Omega$   | 0.2~100G $\Omega$       | 0.2~100G $\Omega$<br>(5000V)<br>0.4~200G $\Omega$<br>(10000V) | 0.05~50G $\Omega$<br>(1k~10kV)<br>1~100M $\Omega$ (1000V) | 0~999M $\Omega$ (500V)<br>0~1.99G $\Omega$ (1000V)<br>0~99.9G $\Omega$ (2500V)<br>0~1T $\Omega$ (5000V) | 0~999M $\Omega$ (500V)<br>0~1.99G $\Omega$ (1000V)<br>0~99.9G $\Omega$ (2500V)<br>0~1T $\Omega$ (5000V) | 400k~500G $\Omega$ (500V)<br>800k~1T $\Omega$ (1000V)<br>2M~2.5T $\Omega$ (2500V)<br>4M~5T $\Omega$ (5000V)<br>8M~35T $\Omega$ (10000V)<br>8M~35T $\Omega$ (12000V) |
| AC Voltage ranges                         | -  | -                       | -   | -   | 30~600V AC/DC   | 30~600V AC/DC   | 30~600V AC/DC   |
| Current                                   | -  | -                       | -   | -   | -   | -   | 0.00nA~2.40mA   |
| Capacitance                               | -  | -                       | -   | -   | -   | -   | 5.0nF~5.0 $\mu$ F   |
| Power source                              | R6P(AA) x 8  | R6P(AA) x 8             | R6P(AA) x 8   | Ni-Cd rechargeable battery(1.2V) x 8                      | LR14(DC12V) x 8   | LR14(DC12V) x 8   | Rechargeable lead storage battery (12V)   |
| Dimensions(L)x(W)x(D)mm                   | 200x140x80   | 200x140x80              | 200x140x80  | 200x140x80  | 205x152x94  | 205x152x94  | 330x410x180<br>*Instrument and Hard case  |
| Weight(Approx.)                           | 1000g  | 1000g                   | 1000g   | 1500g   | 1800g   | 1800g   | 9000g   |