



Ground Tester Selection Chart

v0821



FEATURE COMPARISON	6472	6471	6470-B	4630	4620	6424	6422	6416	6417	6418
Earth Resistance (measures ground rod/grid resistance using auxiliary electrodes)										
3-pole method	●	●	●	●	●	●	●	-	-	-
4-pole method	●	●	●	●	●	-	-	-	-	-
Earth Coupling	●	●	●	-	-	-	-	-	-	-
2-pole (simplified) method	●	●	●	●	●	-	-	-	-	-
Selective Earth Resistance (measures ground rod resistance using handheld clamps)										
2-Clamp (Clamp On) Method	●	●	-	-	-	-	-	●	●	●
4-pole plus 1-clamp Method	●	●	-	-	-	-	-	-	-	-
Tower/Pylon Earth Resistance (measures tower leg ground resistance; individual and total)										
with 6474 GroundFlex Kit	●	-	-	-	-	-	-	-	-	-
Soil Resistivity/Rho (measures conductivity of the soil/earth)										
Automatic Calculation	●	●	●	-	-	-	-	-	-	-
Manual Calculation	●	●	●	●	●	-	-	-	-	-
Continuity/Bond Testing (measures bond points for low resistance)										
4-wire Kelvin	●	●	●	-	-	-	-	-	-	-
2-wire	●	●	●	●	●	●	-	-	-	-
Measurement Frequency (supplied by instrument)										
41 to 5078Hz (91 choices)	●	-	-	-	-	-	-	-	-	-
41 to 512Hz (48 choices)	-	●	●	-	-	-	-	-	-	-
128Hz	-	-	-	●	●	-	-	-	-	-
128, 256Hz (Auto switching)	-	-	-	-	-	●	●	-	-	-
50, 60, 128 or 2083Hz (4 choices)	-	-	-	-	-	-	-	●	●	-
2083Hz	-	-	-	-	-	-	-	-	-	●
SWEEP Mode	●	-	-	-	-	-	-	-	-	-
Measurement Current (supplied by instrument)										
>200mA	●	●	●	-	-	-	-	-	-	-
20mA	-	-	-	-	-	●	●	-	-	-
10mA	-	-	-	●	●	-	-	-	-	-
Measurement Voltages (square wave test voltage supplied by instrument)										
10V, 16V, 32V, 60V	●	-	-	-	-	-	-	-	-	-
16V, 32V	-	●	●	-	-	-	-	-	-	-
42V	-	-	-	●	●	-	-	-	-	-
10V	-	-	-	-	-	●	●	-	-	-
Earth Coupling Measurements (computes coupling between neighboring grounding circuits using 3 measurements)										
Earth Coupling	●	●	●	-	-	-	-	-	-	-
Earth Potential Measurement (variation of the potential around a ground; ratio between 0 and 1)										
V pot	●	-	-	-	-	-	-	-	-	-
Rh, Rs - Measurements & Displays (auxiliary electrode resistance)										
Electrode Resistance	●	●	●	-	-	●(Rh)	-	-	-	-
U Disturbance Measurements & Displays (noise on earth)										
	●	●	●	-	-	-	-	-	-	-
Software - DataView Compatible										
	●	●	●	-	-	-	-	-	●	-
Display Type										
Digital LCD - Multi-line	●	●	●	-	-	●	●	-	-	-
Digital LCD - 3 line	-	-	-	-	-	-	-	●	●	●
Digital LCD - 1 line	-	-	-	●	●	-	-	-	-	-
Power Supply										
Rechargeable NiMH Battery Pack	●	●	●	●	-	-	-	-	-	-
Rechargeable NiMH AA Batteries	-	-	-	-	-	●(AA x 6)	-	-	-	-
Alkaline Batteries (AA or C cells)	-	-	-	-	●(C x 8)	-	●(AA x 6)	●(AA x 4)	●(AA x 4)	●(AA x 4)
Safety										
IEC 61010	50V CAT IV	50V CAT IV	50V CAT IV	30V CAT III	30V CAT III	600V CAT IV	600V CAT IV	600V CAT IV	600V CAT IV	100V CAT IV
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