Fluke 1620 Series GEO Earth Ground Testers

RA 3-pole ground resistance measurement (IEC 1557-5)	
Measuring Voltage	**Fluke 1623** Vm = 48 V ac **Fluke 1625** Vm = 20/48 V ac
Short circuit current	**Fluke 1623** > 50 mA **Fluke 1625** 250 mA ac
Measure frequency	**Fluke 1623** 128 Hz **Fluke 1625** 94, 105, 111, 128Hz
Resolution	**Fluke 1623** 0.001 Ω to 10 Ω **Fluke 1625** 0.001 Ω to 100 Ω
Measuring range	**Fluke 1623** 0.001 Ω to 19.99 kΩ **Fluke 1625** 0.001 Ω to 299.9 kΩ
Intrinsic error	**Fluke 1623** ± (2 % of reading + 3 digit) **Fluke 1625** ± (2 % of reading + 2 d)
Operating error	**Fluke 1623** ± (5 % of reading + 3 d) **Fluke 1625** ± (5 % of reading + 5 d)
RA 4-pole ground resistance measurement (IEC 1557-5)	
Measuring Voltage	**Fluke 1623** Vm = 48 V ac **Fluke 1625** Vm = 20/48 V ac
Short circuit current	**Fluke 1623** > 50 mA **Fluke 1625** 250 mA ac
Measure frequency	**Fluke 1623** 128 Hz **Fluke 1625** 94, 105, 111, 128Hz
Resolution	**Fluke 1623** 0.001 Ω to 10 Ω **Fluke 1625** 0.001 Ω to 100 Ω
Measuring range	**Fluke 1623** 0.001 Ω to 19.99 kΩ **Fluke 1625** 0.001 Ω to 299.9 kΩ
Intrinsic error	**Fluke 1623** ± (2 % of reading + 3 d) **Fluke 1625** ± (2 % of reading + 2 d)
Operating error	**Fluke 1623** ± (5 % of reading + 3 d) **Fluke 1625** ± (5 % of reading + 5 d)
RA 3-pole ground resistance measurement with current clamp	
Measuring Voltage	**Fluke 1623** Vm = 48 V ac **Fluke 1625** Vm = 20/48 V ac
Short circuit current	**Fluke 1623** > 50 mA **Fluke 1625** 250 mA ac
Measure frequency	**Fluke 1623** 128 Hz **Fluke 1625** 94, 105, 111, 128Hz
Resolution	**Fluke 1623** 0.001 Ω to 10 Ω **Fluke 1625** 0.001 Ω to 10 Ω
Measuring range	**Fluke 1623** 0.001 Ω to 19.99 kΩ **Fluke 1625** 0.001 Ω to 29.99 kΩ

Intrinsic error	**Fluke 1623** ± (7 % of reading + 3 d) **Fluke 1625** ± (7 % of reading + 2 d)
Operating error	**Fluke 1623** ± (10 % of reading + 5 d) **Fluke 1625** ± (10 % of reading + 5 d)
RA 4-pole selective ground resistance measurement with current clamp	
Measuring Voltage	**Fluke 1623** Vm = 48 V ac **Fluke 1625** Vm = 20/48 V ac
Short circuit current	**Fluke 1623** > 50 mA **Fluke 1625** 250 mA ac
Measure frequency	**Fluke 1623** 128 Hz **Fluke 1625** 94, 105, 111, 128Hz
Resolution	**Fluke 1623** 0.001 Ω to 10 Ω **Fluke 1625** 0.001 Ω to 10 Ω
Measuring range	**Fluke 1623** 0.001 Ω to 19.99 kΩ **Fluke 1625** 0.001 Ω to 29.99 kΩ
Intrinsic error	**Fluke 1623** ± (7 % of reading + 3 d) **Fluke 1625** ± (7 % of reading + 2 d)
Operating error	**Fluke 1623** ± (10 % of reading + 5 d) **Fluke 1625** ± (10 % of reading + 5 d)
Stakeless ground loop measurement	
Measuring Voltage	**Fluke 1623** Vm = 48 V ac **Fluke 1625** Vm = 20/48 V ac
Measure frequency	**Fluke 1623** 128 Hz (125 Hz on request) **Fluke 1625** 94, 105, 111, 128Hz
Noise current (I_{ext})	**Fluke 1623** Max. I_{ext} = 10 A (ac) (RA < 20 Ω) Max. I_{ext} = 2 A (ac) (RA < 20 Ω) **Fluke 1625** Max. I_{ext} = 3 A
Resolution	**Fluke 1623** 0.001 Ω to 0.1 Ω **Fluke 1625** 0.001 Ω to 10 Ω
Measuring range	**Fluke 1623** 0.001 Ω to 199.9 kΩ **Fluke 1625** 0.001 Ω to 29.99 kΩ
Intrinsic error	**Fluke 1623** ± (7 % of reading + 3 d) **Fluke 1625** ± (7 % of reading + 2 d)
Operating error	**Fluke 1623** ± (10 % of reading + 5 d) **Fluke 1625** ± (10 % of reading + 5 d)
Environmental Specifications	
Working temperature	-10 ℃ to +50 ℃
Operating Temperature	0 ℃ to +35 ℃
Nominal temperature	+18 ℃ to +28 ℃
Storage Temperature	**Fluke 1623** -20 ℃ to +60 ℃ **Fluke 1625** -30 ℃ to +60 ℃
Climatic class	C1 (IEC 654-1), -5 ℃ to + 45 ℃, 5 % to 95 % RH
Protection type	IP56 for case, IP40 for battery door according to EN 60529

Safety Specifications	
Safety Rating	CAT II, 300 V
Mechanical & General Specifications	
Display	**Fluke 1623** 1999 digit LCD – display with special symbols, digit height 25 mm, fluorescent backlight **Fluke 1625** 2999 Digit LCD – 7 segment liquid crystal display with special symbols and backlight
Size	133 mm x 187 mm x 250 mm
Weight	**Fluke 1623 + 1625** 1.1 kg (including batteries)
Warranty	Two years
Battery Life	**Fluke 1623** Typical > 3000 measurements **Fluke 1625** Typical 3000 measurements (RE+RH ≤ 1 kΩ) Typical 6000 measurements (RE+RH ≤ 10 kΩ)