

TECHNICAL DATA

Fluke 1664FC Multifunction Tester with TruTest Data Management Software Kit



Key features

- 1664 FC Multifunction Tester
- TruTest Data Management Software"

Product overview: Fluke 1664FC Multifunction Tester with TruTest Data Management Software Kit

[Fluke 1664 FC Installation Multifunction Tester](#)

The 1664FC puts a lot of testing power in your hands to quickly and efficiently test to all local regulations, protect appliances, and share test results in real time over your smartphone.

The Fluke 1664 FC is the only tester with "Insulation PreTest" that stops the insulation test and provides a visual warning if it detects that an appliance is connected to the system under test. This helps you avoid potentially serious and costly mistakes that can cause damage to your customers' peripheral equipment.

Auto Test performs up to seven installation tests in one sequence, ensuring compliance with local installation regulations. This reduces the number of manual connections, thus decreasing the possibility of errors and reducing test time. Because the 1664 FC is Fluke Connect®-enabled, you can send test results to your smartphone, save them to the cloud, and share measurements in real time with team members through a ShareLive video call. It's the fastest way to let your team see what you see, and to help you get approvals without leaving the field.

Fluke Cloud™ storage allows you to retrieve stored results whether you are in the office or in the field to make decisions in real time. You get world-class data protection and you can import the data into Fluke DMS (Data Management Software) to process and generate certificates.


[Fluke TruTest Data Management Software](#)

Fluke TruTest Software is designed to eliminate the hassle associated with traditional electrical system data management and reporting. Whether you are testing fixed wire installations, or appliances in an office, verifying repairs in a workshop, or performing annual inspections proper data management is critical for producing easy-to-understand reports for clients. Compatible with a growing list of Fluke and Beha-Amprobe test and measurement devices TruTest Software allows you to quickly and easily import measurement results directly from your test instruments, manage files transferred from instruments, or manually enter data as needed.

Specifications: Fluke 1664FC Multifunction Tester with TruTest Data Management Software Kit

AC voltage measurement	
Range	500 V
Resolution	0.1 V
Accuracy 45 Hz – 66 Hz	0.8% + 3
Input impedance	360 kΩ
Overload protection	660 V rms
Continuity testing (RLO)	
Range (autoranging)	20 Ω / 200 Ω / 2000 Ω
Resolution	0.01 Ω / 0.1 Ω / 1 Ω
Open Circuit Voltage	>4 V
Insulation resistance measurement (RISO)	
Test voltages	50-100-250-500-1000 V
Accuracy of tTest voltage (at rated test current)	+10%, -0%
Test voltage	50 V 100 V 250 V 500 V 1000 V
Insulation resistance range	20 MΩ / 50 MΩ 20 MΩ / 100 MΩ 20 MΩ / 200 MΩ 20 MΩ / 200 MΩ / 500 MΩ 20 MΩ / 200 MΩ / 1000 MΩ
Resolution	0.01 MΩ / 0.1 MΩ 0.01 MΩ / 0.1 MΩ 0.01 MΩ / 0.1 MΩ 0.01 MΩ / 0.1 MΩ / 1 MΩ 0.01 MΩ / 0.1 MΩ / 1 MΩ

Test current	1 mA @ 50 kΩ 1 mA @ 100 kΩ 1 mA @ 250 kΩ 1 mA @ 500 kΩ 1 mA @ 1 MΩ	
Loop and line impedance (ZI)		
Range	10 Ω / 0.001 Ω / High current mΩ mode	
Resolution	0.01 Ω / 0.1 Ω / 1 Ω	
Prospective earth fault current, PSC test		
Range	1000 A / 10 kA (50 kA)	
Resolution	1 A / 0.1 kA	
Computation	Prospective earth fault current (PEFC) or Prospective short circuit current (PSC) determined by dividing measured mains voltage by measured loop (L-PE) resistance or line (L-N) resistance, respectively.	
RCD testing, RCD types tested		
RCD Type	AC ¹ G ² ,S ³	
Model 1664	A, AC, B ⁵ , S	
Notes	¹ Responds to AC ² General, no delay ³ Time delay ⁴ Responds to pulsed signal ⁵ Responds to smooth DC signal	
Tripping speed test (IT)		
Current settings ¹	10-30-100-300-500-1000 mA – VAR 10-30-100 mA	
Multiplier	x ½, x 1 x 5	
Measurement range	RCD Type G	310 ms 50 ms
	RCD Type S	510 ms 160 ms
Notes	¹ 1000 mA type AC only 700 mA maximum type A in VAR mode VAR mode not available for type B.	
RCD/FI-Tripping Current Measurement/Ramp Test (IN)		
Current range	30% to 110% of RCD rated current ¹	
Step size	10% of IΔN ²	
Dwell time	Type G	300 ms/step
	Type S	500 ms/step
Measurement accuracy	±5%	

Specified trip current ranges (EN 61008-1)	50% to 100% for Type AC 35% to 140% for Type A (>10 mA) 35% to 200% for Type A (\leq 10 mA) 50% to 200% for Type B ² 5% for Type B		
Notes	¹ 30% to 150% for Type A $I_{\Delta N} > 10$ mA 30% to 210% for Type A $I_{\Delta N} = 10$ mA 20% to 210% for Type B		
Earth Resistance Test (RE)			
Range	200 Ω / 2000 Ω		
Resolution	0.1 Ω / 1 Ω		
Frequency	128 Hz		
Output Voltage	25 V		
Phase Sequence Indication			
Icon	 Phase Sequence indicator is active.		
General Specifications			
Size (L x W x H)	10 x 25 x 12.5 cm		
Weight (incl. batteries)	1.3 Kg		
Battery size, quantity	Type AA, 6 ea.		
Sealing	IP-40		
Safety	Complies with EN61010-1 Ed 2.0 (2001-02), UL61010, ANSI/ISA –s82.02.01 2000 and CAN/CSA c22.2 No. 1010 2nd edition		
Overvoltage	CAT III / 500V; CAT IV 300V		
Performance	EN61557-1 to EN61557-7 Second Edition and EN61557-10 Second Edition		
Function	Demo	Lite	Advanced
Database structure (Local standalone or server based)	Local	Local	Local
Portable Appliance Tester (PAT) module	•	•	•
Portable Appliance Testers supported	Fluke 6500, Fluke 6500-2, Beha-Amprobe GT-600, Beha-Amprobe GT-650, Beha-Amprobe GT-800, Beha-Amprobe GT-900		
Maximum addable clients	1	2	Unlimited
Maximum addable sites/client	2	5	Unlimited
Maximum addable locations/client	5	50	Unlimited
Maximum addable appliances/client	20	1000	Unlimited
Installation Testers (INST) module	•	•	•
Installation Testers supported	Fluke 1653, Fluke 1653B, Fluke 1654B, Fluke 1662, Fluke 1663, Fluke 1664 FC, Beha-Amprobe ProInstall-100, Beha-Amprobe ProInstall-200		

Maximum addable clients	1	2	Unlimited
Maximum addable sites/client	2	5	Unlimited
Maximum addable locations/client	5	25	Unlimited
Maximum addable appliances/client	50	200	Unlimited
Include demo database	•	•	•
Create clients	•	•	•
Rename clients		•	•
Delete clients	•	•	•
Create nodes	•	•	•
Move nodes	•	•	•
Rename nodes		•	•
Delete nodes	•	•	•
Edit client information		•	•
Edit site information		•	•
Edit location information		•	•
Edit appliance information		•	•
Edit test information		•	•
Add test step		•	•
Delete test step		•	•
Edit test step		•	•
Add remarks		•	•
Add attachment (file) to remark			•
Edit remark		•	•
Delete remark		•	•
Read data from instrument	•	•	•
Read data from file	•	•	•
Read data conflict management	•	•	•
Read data assign tree structure	•	•	•
Load data to instrument			*Compatible tool required



Use search	•	•	•
Show reports	With watermark	•	•
Show certificates	With watermark	•	•
Save (PDF, XML,...) /Print reports		•	•
Save (PDF, XML,...)/Print certificates		•	•
Add engineers	Demo engineer	•	•
Edit engineers		•	•
Delete engineers		•	•
Print engineers		•	•
Add test instruments	Demo instrument	•	•
Edit test instruments		•	•
Delete test instruments		•	•
Print test instruments		•	•
Edit my company info	Demo company	•	•
Edit company logo	Demo logo		•
Edit certification logo	Demo logo		•
View Auto Test Codes	•	•	•
Select favorites Auto Test Codes		•	•
Print favorites Auto Test Codes		•	•
Print All Auto Test Codes		•	•
Create customized Auto Test Codes			•
Edit customized Auto Test Codes			•
Copy customized Auto Test Codes			•
Delete customized Auto Test Codes			•
Print Customized Auto Test Codes			•
Create backup		•	•
Restore backup		•	•
Maximum users	1 Demo user	2	Unlimited

Add users		•	•
Edit users		•	•
User roles		•	•
Edit user roles		•	•
Print users list		•	•
Edit limits		•	•
Available languages	EN, DE, FR, IT, NL		
Supported Installation certificates	DIN VDE 0701-0702, ÖVE/ÖNORM E 8701, SNR 462638, NEN3140, International template		
Change language	•	•	•
Change country	•	•	•
Change report language			•
Expire duration	60 days (calculated from installation date)	Unlimited	
Free updates		5 years (calculated from enter serial code date)	
Expiration popup notice	Daily	Every 30 days after 5 year free update period	
Activation date with days left until expiration	•	•	•

System requirements

Type	Requirement
Operating System	<ul style="list-style-type: none"> • Microsoft Windows 10, 64-bit and 32-bit (recommended) • Microsoft Windows 8/8.1, 64-bit and 32-bit • Microsoft Windows 7 with Service Pack 1, 64-bit and 32-bit
System Memory	Minimum 4 GB RAM (64-bit) or 2 GB RAM (32-bit)
Hard disk space	Minimum 2 GB available hard disk space
Display resolution	Minimum screen resolution 1366 x 768
Communication interfaces	USB

Ordering information



Fluke 1664FC FTT Kit

Fluke 1664FC Multifunction Installation Tester with TruTest Software Kit

Includes:

- 1664 FC Multifunction Installation Tester
- 6x AA (IEC LR6) cell batteries
- C1600 hard carrying case
- Zero adapter
- Heavy duty mains cord
- STD standard test lead set
- Padded carrying and waist strap
- Quick reference guide
- TP165X remote control probe and lead
- IR189USB cable
- TruTest Data Management Software

Fluke 1664FC SCH FTT Kit

Fluke 1664FC Multifunction Installation Tester with TruTest Software Kit

Includes:

- 1664 FC Multifunction Installation Tester
- 6x AA (IEC LR6) cell batteries
- C1600 hard carrying case
- Zero adapter
- Heavy duty mains cord
- STD standard test lead set

- Padded carrying and waist strap
 - Quick reference guide
 - TP165X remote control probe and lead
 - IR189USB cable
 - TruTest Data Management Software
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Fluke 1664FC ITDK FTT Kit

Fluke 1664FC Multifunction Installation Tester with TruTest Software Kit

Includes:

- 1664 FC Multifunction Installation Tester
 - 6x AA (IEC LR6) cell batteries
 - C1600 hard carrying case
 - Zero adapter
 - Heavy duty mains cord
 - STD standard test lead set
 - Padded carrying and waist strap
 - Quick reference guide
 - TP165X remote control probe and lead
 - IR189USB cable
 - TruTest Data Management Software
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Fluke 1664FC DE FTT Kit

Fluke 1664FC Multifunction Installation Tester with TruTest Software Kit

Includes:

- 1664 FC Multifunction Installation Tester
 - 6x AA (IEC LR6) cell batteries
 - C1600 hard carrying case
 - Zero adapter
 - Heavy duty mains cord
 - STD standard test lead set
 - Padded carrying and waist strap
 - Quick reference guide
 - TP165X remote control probe and lead
 - IR189USB cable
 - TruTest Data Management Software
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