

## DATA SHEET

# PCB Test Kit

## SPECIAL FEATURES

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- Strain measurement on PCBs
- One package includes everything
- JEDEC-compliant strain gauge for mechanical PCB tests
- QuantumX bridge measurement module
- catman software with pre-assembled project and test certificate in Word®
- All of the required accessory parts



## DESCRIPTION

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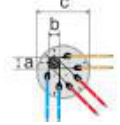




The PCB test kit includes all the necessary elements to simply, quickly, and reliably complete mechanical PCB tests.






The reliability of complex electronics that are used in mobile applications or harsh environments is the result of experienced development and intensive tests. At HBK, we have made it our mission to ensure tests and multiple measurements of mechanical strains based on electric strain measurements on PCBs are completed as easily and as fast as possible, so that you can ensure the robust design of your electronic PCB and thus the entire device throughout developments tests, acceptance, and during production.

The **PCB test kit** includes all of the tools, measurement and auxiliary equipment required to complete strain measurements on PCBs in accordance with **IPC/ JEDEC 9704**: From the optimum **pre-wired strain gauges**, through to the **QuantumX strain gauge bridge amplifier** and the popular data acquisition software **catman®Easy** including simple parameterization, live display, and reporting. Everything comes in one package. The package includes software maintenance, support, and free updates for one year and can be extended at any time.

**Order number:** 1-PCB-TESTKIT

## CONTENT OF THE PCB TEST KIT

Description	Order number	Figure
Hard shell case		
1x catman Easy software for setting up your jobs, with integrated sensor database, online calculation, recoding, visualization, reporting, and much more. Installation on Windows PCs.	1-CATMAN-EASY	
1x QuantumX MX1615B strain gauge bridge amplifier for recording strain gauges in ¼, ½ or full bridge configuration with DC or TF bridge excitation, integrated completion resistors, PT100/PT500/PT1000, elec. voltage measurement +/-10 V at every measurement channel. Individually adjustable to the channel (function, scaling, data rate, filter, etc.) Channel health check using shunt resistor	1-MX1615B	
1x Ethernet line, 2 m between measurement module and PC	1-KAB239-2	
1x AC/DC power supply unit for QuantumX (international, 24 VDC, 30 W)	1-NTX001	
1x packet of push-in plugs for transducer connections, 16 units	1-CON-S1015	
1x Wiring Mate – simple installation aid. Holder for push-in plug for the fast connection of transducer lines to the strain gauge bridge amplifier	1-WIRING-MATE	
1x package of ten 1-LY41-1.5/120 type strain gauges	1-LY41-1.5/ 120	
1x package of five 1-RF95-1/120ZE type strain gauge rosettes	1-RF95-1/ 120ZE	
1x package of 1-LS7 type soldered connections	1-LS7	
1x silicone SG250 covering agent	1-SG250	
200x cleaning pads (50x50 mm)	1-8402.0026	
1x 100 cm³ RMS 1 cleaning agent	1-RMS1	

Description	Order number	Figure
1x flux pen	1-FS01	
1x lead-free soldering tin	1-LOT-LF	
20m PFA cable, AWG 32, 4-wire, with cable shield	1-CABP4/20	
1x Z70 cold curing adhesive	1-Z70	
1x adhesive tape	1-KLEBEBAND	
1x flat brush		
1x folding magnifying glass		
1x ruler, 150 mm		
1x hard rubber eraser pen		
1x pair of thinning and pointed scissors		
1x pair of wide and pointed tweezers		
1x flexible ruler		
1x tooth probe with bent tip		
1x cement applicator		
1x cutters with wire strippers		
1x 60/15 Petri dish		
1x scalpel holder, plus 6 blades		
25 g solder diameter Ø 1 mm		
1x roll of Scotch Tape		
1x eraser		
1x ballpoint pen		
1x sandpaper, 180/220/360 grit		

**Hottinger Brüel & Kjaer GmbH**

Im Tiefen See 45 · 64293 Darmstadt · Germany  
 Tel. +49 6151 803-0 · Fax +49 6151 803-9100  
 www.hbkworld.com · info@hbkworl.com

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