



**APPLIED MEASUREMENTS LTD.**  
Transducer Specialists...

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## BlueForce Smart Impact Force Tester

### Key Features:

- Bluetooth LE 4.1 and NFC Interfaces
- Smart Functions with BlueForce App
- Instant Display of Test Results on Smartphone
- Carry-Case with Pre-Formed Interior Included
- USB Cable for PC Included
- USB Port for Easy Download to PC
- Hex Wrench for Handle Disassembly Included
- 2 Week Delivery

*For impact force measurements direct to your smartphone*



### Bluetooth LE 4.1 wireless technology:

Allows your BlueForce to interface with the latest generation of smartphones (Apple iOS systems via BLE + specific app iPhone 4S models onwards).



**NFC Technology:** Simply place the smartphone on the back of the upgraded BlueForce for instant display of test results (Android and Windows systems).

The BlueForce smart impact force tester is an innovative, state-of-the-art force measurement device with **Bluetooth LE 4.1 wireless technology** and **NFC Forum Type 4** integration. It is designed to interface with Bluetooth enabled smartphones enabling the force measurement results to be viewed instantly on your smartphone.

It is internationally recognised and gives you CE certification of power-operated gates and doors. It is compliant with EN12453 (formally known as EN12445), EN60335-2-95, ASR A1.7, DHF UK Norms (see website UK).

The **Bluetooth LE 4.1 technology** uses wireless BLE connectivity to transfer the force measurement results directly to a Bluetooth enabled smartphone or to a PC (Windows OS with BlueForce software) via the plug n go BlueTooth 4.1' interface (sold separately) or via the USB cable (included).

Plus, with its **NFC technology**, you can simply place the smartphone on the back of the force tester to read the results of the test on your mobile phone, providing graphic illustrations of the test.

The BlueForce smart impact force tester features a built-in internal clock, a blue LED display and allows for storage of up to 80 force measurement tests.

The USB port of the allows connection of the impact force sensor with a PC where you can download and sort the measurement tests. The software stores the date, time and measurement points, plus it provides graphical representations such as trend graphs and generates the force measurement reports. The USB port can now be used to update the instrument Firmware via USB.

**Applied Measurements are the ONLY UK approved calibration house for Microtronics SpeedForce/ BlueForce testers, see our [Microtronics Services Page](#).**



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Provided along with the BlueForce Smart impact force tester is the carry-case with pre-formed interior. This is ideal for storing and transporting your force tester, USB cable for PC and hex wrench for handle disassembly.

If you require a carry-case suitable for extreme weather conditions, we can supply the extreme carry-case, which is dust-tight and water resistant, IP67 protection rated. See our [Microtronics accessories section](#).

### Specification:

BlueForce Smart Impact Force Tester	
Dimensions:	280x80x50mm
Weight:	1.6kg
Power supply:	9V PP3 Alkaline Battery
Memory capacity:	80 tests
Force acq. interval:	6 sec, sampling at 1kHz
Force measurement range:	0-2000N (mechanical stop at approx. 2100N)
Force measurement resolution:	1N
Dynamic time measurement resolution:	0.01s
Maximum force measurement error margin:	range from 25N to 400N: $\pm 0,5\%$ F.S.; from 400N to 1000N: $\pm 1\%$ F.S.; from 1000N to 2000N: $\pm 2\%$ F.S.;
NFC interface:	standard ISO/IEC 14443 and NFC Forum Type 4
BLE interface:	Bluetooth version 4.1
USB interface:	v.2.0 specification compliant
CE-EMC conformity	at TUV Rheinland on sample BlueForce instrument serial no.: 00981
Compliant with standards	EN12453, EN12445, EN16005, EN60335-2-95, DHF TS 011-012, ASR A1.7
Compatible with Android devices with S.O from 5.0 and with Apple devices with iOS from 9.0.	
Compatible with all smartphones equipped with an active NFC interface. Active internet connection is required.	



## BlueForce Smart App:

The BlueForce Smart App is available to download on the Apple Store and Google Play.

Minimum requirements of your mobile device: iOS Apple from ver. 9.0, Android Software from ver. 5.0, Bluetooth, active connection to Internet.

After sending the force measurement test to the device (smartphone, tablet etc.), the App will show this page, containing all information on the measurements taken (see details below).

**Blueforce SMART 1.0**

Test n. 12  
07/07/15  
11:52

Hinged gate - 1: h=50mm/gap=50mm

✓ TEST PASSED \*

F (N)

300  
200  
100  
0

0s 3s 6s

Force Dyn. max	Fd= 352 N	<= 400 N
Period Dyn.	Td= 0.54 s	< 0.75 s
Force Static avg	Fs= 0 N	<= 150 N
Force Final	Fe= 0 N	<= 25 N

Number of test send and relative date/time

App language change

Type of port measured and relative data on measurement points

TEST results

Modification to measurement type and points

Impact curve graph

Impact curve parameters

Selection of port type

Selection of measurement points

Confirm button for type of port and measurement points

Graphic display of measurement according to EN 12453

Current instrument calibration date

Serial number and current instrument firmware version

**N.B.** for iOS devices Three buttons are located on the lower section: RELOAD, BACK, FORWARD. These enable navigation in "internet browser" mode.





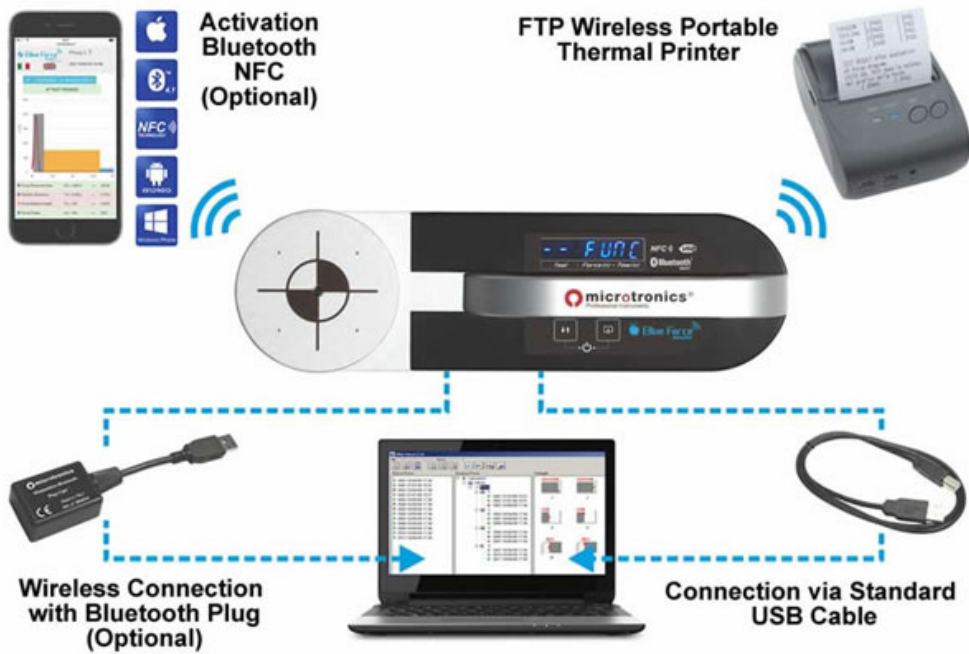
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## Associated Products:



FTP Wireless Printer



Angular Extension



Plug n Go Bluetooth 4.1 USB



Vertical Extension



Straight Extension



Extreme Carry Case