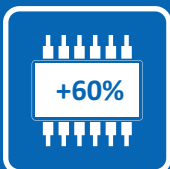
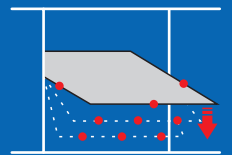
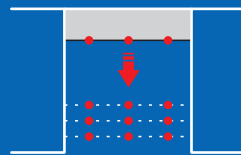
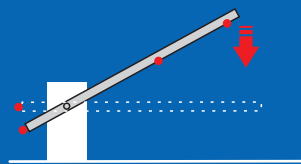
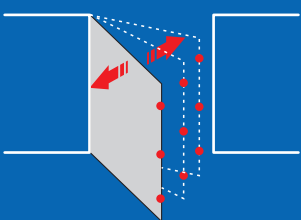


THE SAFETY OF GATES BECOMES SMART



**FORCE MEASUREMENT INSTRUMENTS
FOR CE COMPLIANT AUTOMATIC GATES AND DOORS**
EN12445 EN12453 EN16005 EN60335-2-95





From the experience of **Microtronics** in the sector of instrumentation for automatic gates/doors comes the evolution of BlueForce: the new **BlueForce Smart**, equipped with the most advanced wireless **Bluetooth technologies LE 4.1** and **NFC Forum Type 4**, is designed to interface directly with the latest generation of smart-phones to share the practical functions and convenience of the Internet.

The same strength and precision as ever, together with a highly unique design, lie at the base of the success of **BlueForce**, adopted throughout Europe as a Reference Instrument by the major Notified Bodies and the top manufacturers of automations for power-operated gates and pedestrian doors.

BlueForce Smart by Microtronics is now even more versatile, intuitive and easy to use thanks to the multi-connectivity offer by **IoT (Internet Of Things)**.

INNOVATIONS AND MAIN FEATURES:



New sturdy and unique carry case to hold the instrument together with the Straight Extension accessory (optional) to perform measurements at 30 cm and 50 cm from the striking point



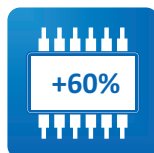
New built-in internal clock: for simpler and quicker identification of the tests performed, thanks to automatic memorisation of the date and time of execution.



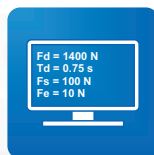
Bluetooth LE 4.1 technology (optional activation): wireless BLE connectivity now represents the evolution of Bluetooth technology, and enables interfacing of the BlueForce with a PC (Windows OS with BlueForce software) via the special USB-plug receiver (optional), fully compatible also with the latest generation of smartphones*.



Optional measurement accessories: the practical Straight Extension, suitable for all types of gates and doors, is easily hooked up to the instrument for use when measuring force at distances of 30 cm and 50 cm from the striking point. The Angular Extension, hooked up to the base of the Straight Extension, is specially designed for vertically closing gates/doors and is used to measure force at distances of 1.25 and 2.5 metres.



Internal memory capacity increased by 60%: enables storage of an impressive 80 complete tests directly on the instrument.



New blue led alphanumerical display: The indestructible display with 7 segments has been made even more legible thanks to the blue colouring, a classic feature of the "smart" design of the new BlueForce instrument. Option of direct display of numerical test parameters.



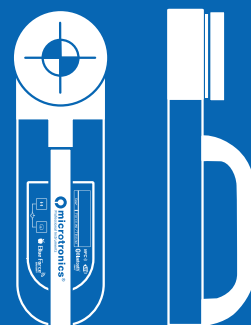
NFC technology (optional activation): thanks to the revolutionary technology NFC, simply place the smartphone** on the back of the new BlueForce to read the force test directly of the mobile phone, according to the specific type of gate/door, illustrating all measurement points as envisaged by current standards.



USB port: enables connection of the instrument to a PC with Windows OS to download and manage tests performed with the software supplied. The latest version of the Microtronics BlueForce program enables the storage of tests with the date and time of execution, combining these with the specific measurement point, and analysing trend graphs with the generation of a report to attach to the Technical Specifications. From now, there is also the option to update the Firmware version of the instrument via USB.

Technical data:

Dimensions and Weight: 280x80x50mm - approx. 1.6 Kg
 Power supply: 9V 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 0 to 400N: +/-1% F.S; from 400 to 1000N: +/-2% F.S; from 1000 to 2000N: +/-4% F.S;
 CE-EMC conformity at TUV Rheinland on sample BlueForce instrument serial no.: 00981
 Compliant with standards EN12445, EN12453, EN16005, EN60335-2-95
 NFC interface: standard ISO/IEC 14443 and NFC Forum Type 4 (enabled as an option via password)
 BLE interface: Bluetooth version 4.1 (enabled as an option via password)
 USB interface: v.2.0 specification compliant
 (*) Compatible with iPhone models from 4S onwards. This requires installation of the specific App and an active Internet connection.
 (**) Compatible with all smartphones equipped with an active NFC interface. An active Internet connection is required.



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