

DFJ – Digital Flat Jacks

Wireless system for measuring the deflections in the test with the flat jacks

DFJ is a wireless system for the measurement of the deformations of the masonry during the



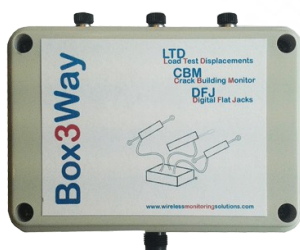
test in flat jacks.

DFJ, Unique in its kind, DFJ acquires, in digital format, the values of the applied pressure with a hand pump to the flat jacks in the walls.

Thanks to wireless technology, the

measures will be achieved with ease. Each of our potentiometer and pressure transducer is connected to a wireless data logger for the storage of the measured data.

This specific configuration, developed in collaboration with a number of technical and testing laboratories, provides the advantage of having a series of precise data in a single data base. In this way, DFJ have a temporal relationship between the applied load and deformation obtained.



Are also available three channels datalogger that, through a sorting box **Box3way**, handle three position transducers simultaneously

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The strengths of the DFJ :

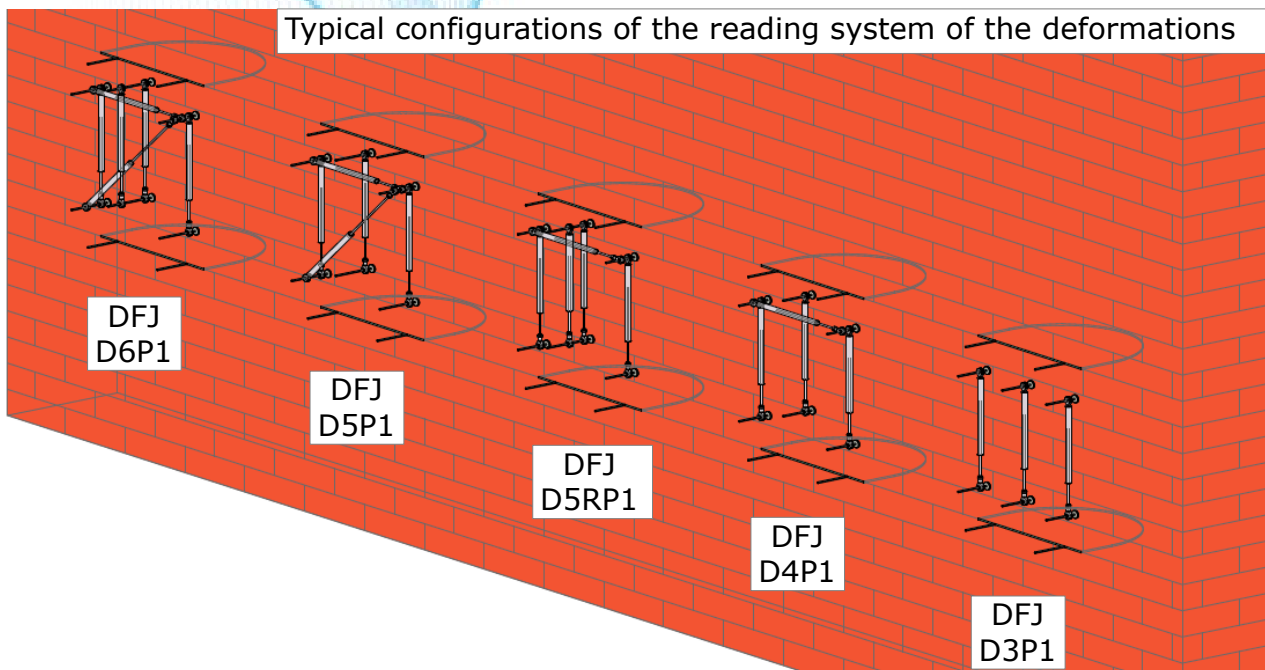


- Reading system of the load applied via digital display
- Displacement sensors and load with wireless technology
- Digital pressure gauge with electrical output
- Synchronizing data between the applied load and deformation obtained

The software, in a few steps, allows to transfer measurements on a graph load-deformation. Installing more displacement sensors you can also measure the deformations and rotations in and out of the plane of the wall.

The reading system deformation can be implemented on any measurement kit on the market, for customers who want to automate the readings abandoning the traditional system of deformometer manual. On request, it will be possible to insert a pressure transducer on the pump of customers to automate the reading of the applied load.

Typical configurations of the reading system of the deformations



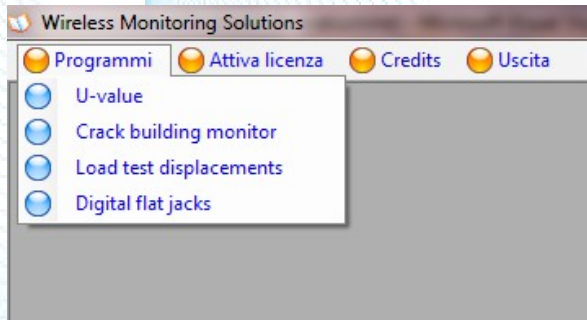
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The same system can also be used to implement our CBM (Crack Building Monitor) digital wireless system for the measurement of lesions and crack patterns and the kit LTD (Load Test Displacements) for the measurement of floor displacements in the load tests.



DFJ Digital Flat Jacks. The software, in a few steps, allows to bring back on the trend graph of lesions over time. By filling in the required information, the technician is guided easily in preparing the full report of the measurement performed.

DFJ is an integral part of the WMS suite that includes all of our calculation software kit instrumental wireless monitoring.

Specifications:

General:

- Manageable units: **up to 500 devices contemporaries!**
- Internal memory: 32256 samples with date and time
- Protection: IP 65
- Operating Temperature: -40 ° C to +85 ° C
- Batteries: AA Lithium Thionyl (included) with connectors
- Typical battery life: up to 3 years at 25 ° C with sampling every 10 minutes (not in ALERT MODE)

Acquisition of data:

- Recording intervals: selectable by software
- Clock: Built-in
- Recording media: Internal memory
- Data format: CSV

Data transmission:

- Frequency: ISM 868 MHz
- Receiver sensitivity: -100dBm
- Power transmission: 3dBm
- Free field range: 800m
- Flow in buildings: up to 5 floors

We are always looking for the best technical solutions for this reason the configuration and specifications are subject to change without notice.

Rectilinear displacement transducer:

- Displacement transducers with selfaligning ball-joints. Typical stroke 25, 50, 75,100, 150, 200 and 250 mm
- 3 m standard length cable.
- Optional 3.0, 5.0 and 10.0 m cable with M8 connector. Other length possible.

Digital pressure transducer:

- Range: 0-300 bar
- Accuracy: <0,1 %FS
- Electric output: 4-20 mA
- IP protection: IP65

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