



**Biometrics Ltd**



**↔ DataLITE →**

**WIRELESS SENSORS & SYSTEMS**

MOVEMENT ANALYSIS

EMG

DATA ACQUISITION

## DataLITE Wireless Sensors

**NEW DataLITE sensors are completely wireless allowing total freedom of movement. Precise measurements include real-time joint angular movement, EMG analysis and other associated physiological measurements.**

**A DataLITE Dongle (receiver) attached to the USB port of the host computer can communicate with up to 24 channels of DataLITE sensor inputs via Wi-Fi.**



### Goniometers (W Series)

Using the same technology as our world standard electrogoniometers for dynamic joint angular measurement - the NEW W series twin-axis Goniometers incorporate a wireless transmitter to send data to the computer for display, analysis and transfer to custom applications in real-time.

### Contact Switches (FS2)

The Contact Switches plug into a wireless Goniometer. For example, attaching the Goniometer on the ankle, and the Contact Switches on the foot, allows the researcher to coordinate the gait parameters with the dynamic movement of the ankle joint.

*Quick and easy to set-up,  
DataLITE wireless sensors provide  
superb quality of signal and gives the  
test subject total freedom of movement.*



### EMG (LE230)

The LE230 wireless EMG sensor provides superb quality of signal and ease of use. With a bandwidth of 5-495 Hz, a built in x1000 gain amplifier and wireless transmitter, surface EMG signals are collected and sent to the Biometrics software for display & analysis.



### DataLITE Adaptor (AD2)

The DataLITE Adaptor is used with the dongle to readily interface the following devices: Dynamometer, MyoMeter, Pinchmeter, ForcePlates and Load Cells.

The various load/strength data collected may be synchronized real-time with other DataLITE sensors as part of a complete DataLITE system. Interfacing is effortless as all the precision calibration data is pre-programmed within the microprocessor controlled units.



### Dynamometer (G200)

The Biometrics Dynamometer utilises precision load cell technology to increase the sensitivity and accuracy of measurement of even very low grip strength forces. By using the industry standard design, researchers can compare with standardized normative data.



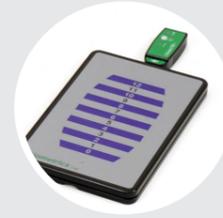
### MyoMeter (M550)

The MyoMeter allows the user to quantify the force applied during manual muscle testing - the evaluation of the function and strength of individual muscles and muscle groups based on effective performance of a movement in relation to the forces of gravity and manual resistance.



### Pinchmeter (P200)

The unique design of the Biometrics electronic Pinchmeter has a low profile that enables the researcher to quantify pinch strength at closer to end range than any other device. Highly sensitive to accurately measure pinch strength across a wide variety of subjects.



### ForcePlates (FP3, FP4)

ForcePlates are focused to the needs of the researcher providing high precision, versatility and ease of use. Consisting of a sandwich of 2 uniform precision metal plates, with 4 Load Cells mounted between them, the vertical component of the total reaction force is measured independent of where it is applied over the surface of the plates.

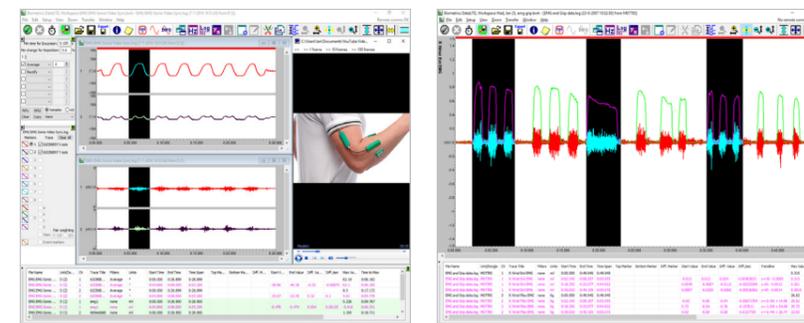


### Load Cells (In-Line, S-Beam)

High precision In-Line range of Load Cells are used for tensile applications and may be used in any attitude.

S-Beam range of Load Cells are designed for compression applications and may be used in-line or end mounted.

### ▼ Biometrics Ltd DataLITE analysis software with video synchronization.





Biometrics Ltd sensors are used around the world in various settings that include biomechanics, sports and exercise science, medicine, physiotherapy, neurology, veterinary science, aerospace and industrial design - resulting in published research spanning more than 20 years.

DataLITE options range from a single goniometer or EMG sensor to comprehensive systems of multiple sensor types which can be configured to suit end user requirements.

## DataLITE Wireless Systems



**Wireless System 0 (WS0)**  
Includes: DG2, CA2



**Wireless System 1 (WS1)**  
Includes: DG2, CA2, AD2



**2 Goniometer (WS200)**  
Includes: WS0, Management Software,  
2 x Gonio



**2 Channel EMG (WS250)**  
Includes: WS0, Management Software,  
2 x EMG



**4 Goniometer (WS400)**  
Includes: WS0, Management Software,  
4 x Gonio



**4 Channel EMG (WS450)**  
Includes: WS0, Management Software,  
4 x EMG



**8 Goniometer (WS800)**  
Includes: WS0, Analysis Software,  
8 x Gonio, Goniometer Tape,  
2 x Contact Switches



**8 Channel EMG (WS850)**  
Includes: WS0, Analysis Software,  
8 x EMG, EMG Sensor Tape



**2 Goniometer + 2 EMG (WS900)**  
Includes: WS0, Management Software,  
2 x Gonio, 2 x EMG



**4 EMG + 4 Goniometer (WS950)**  
Includes: WS0, Analysis Software,  
4 x EMG, 4 x Gonio



**8 EMG/ 8 Goniometer (WS1800)**  
Includes: WS0, Analysis Software,  
8 x Gonio, Goniometer Tape,  
8 x EMG, EMG Sensor Tape,  
2 x Contact Switches



ISO 13485:2003  
EN ISO 13485:2012  
Certificate no. GB05/66471

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