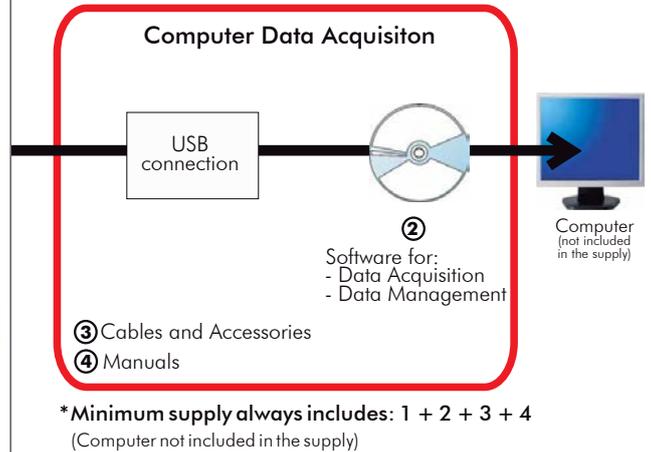




① Unit: SPC. Weighing System



## INTRODUCTION

Mass is the amount of matter of a body measured in a scale and it is measured in kilograms (Kg).

Weight is the quantification of the gravitational force exerted on a body.

The Weighing System, with Computer Data Acquisition "SPC" is an easy to use unit that allows to perform different experiments in which weight must be accurately weighed.

## GENERAL DESCRIPTION

The Weighing System, with Computer Data Acquisition "SPC" consist of a digital force meter that allows to determine both the mass and weight of a body (traction) as well as to determine compression forces.

It has different adaptors according to the measurement to be performed: hook adaptor type to measure weight or conical, chisel and flat head adaptor to determine compression forces.

The software of the unit allows to perform a computerized monitoring of the measurements taken.



ISO 9000: Quality Management  
(for Design, Manufacturing,  
Commercialization and After-sales service)



European Union Certificate  
(total safety)



Certificates ISO 14000 and  
ECO-Management and Audit Scheme  
(environmental management)



Worlddidac Quality Charter  
Certificate and  
Worlddidac Member

**① SPC. Unit:**

Digital force meter:

Measurement range: 5 Kg. / 176.40 oz / 49.03 N.

Resolution: 1 gr. / 0.05 oz / 0.01N.

Minimum indicator: 3 gr. / 0.10 oz / 0.03N.

Accuracy:  $\pm 0.4\%$  of the reading + 1 digit.

Operating temperature: 0 – 50°C.

Operating humidity: less than 80% of relative humidity.

Traction and pressure measurement possibilities.

LCD screen of 10 mm.

The maximum value can be stored during the measurement.

Accessories:

Flat head adaptor.

Hook adaptor.

Conical adaptor.

Chisel adaptor.

Elongating rod (120 mm.).

USB cable to connect to the computer for the data acquisition.

6 Batteries of 1.5 V.

Storage case, with packing foam, for the meter, accessories and software.

**② Data Acquisition and Data Management Software:**

Compatible with actual Windows operating systems.

Graphic and intuitive simulation of the process in screen.

Compatible with the industry standards.

Flexible and open software, developed with actual windows graphic systems.

Management, processing, comparison and storage of data.

Graphic representation in real time.

Comparative analysis of the obtained data.

**③ Cables and Accessories**, for normal operation.

**④ Manuals:**

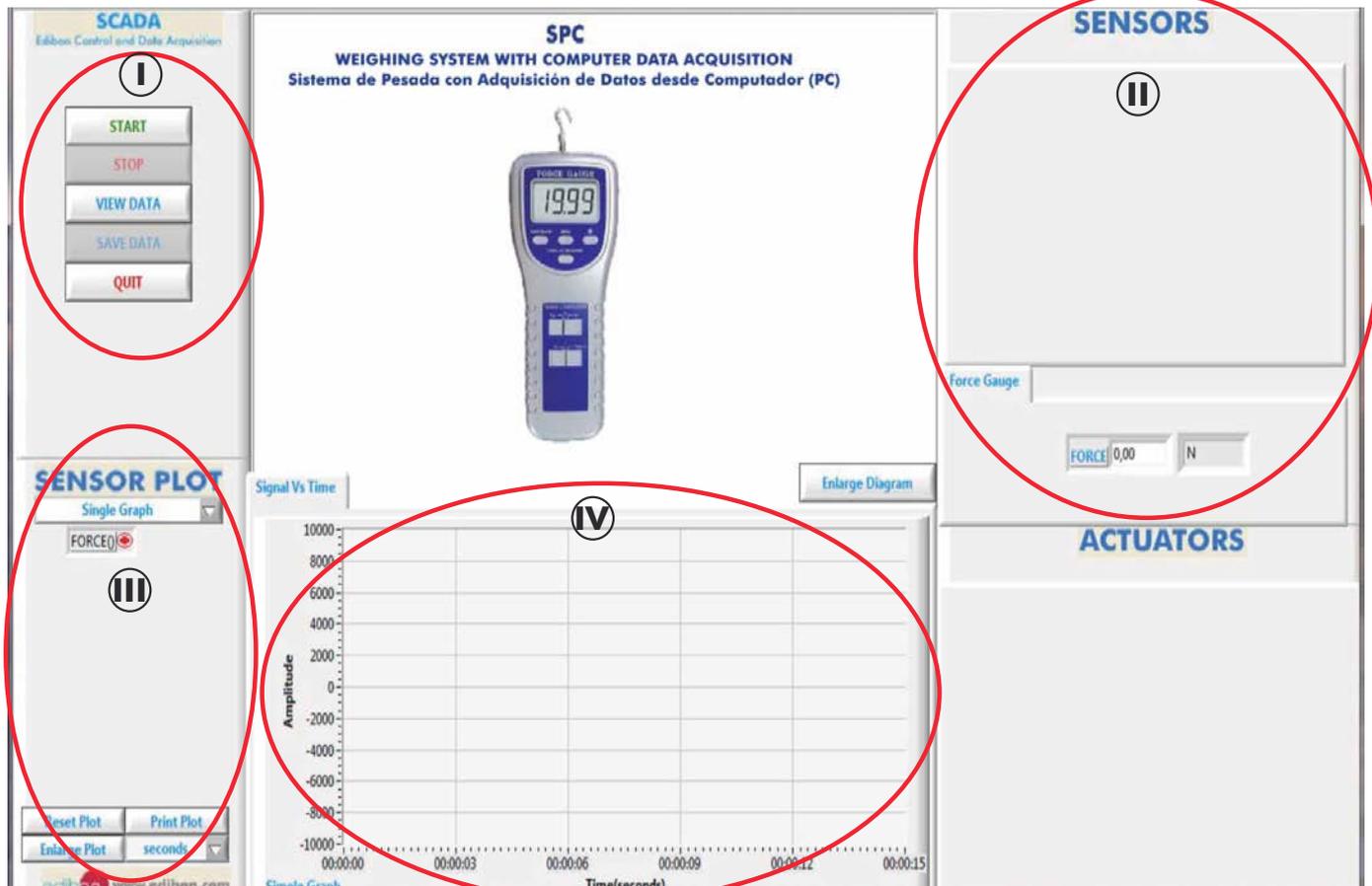
This unit is **supplied with the following manuals:** Required Services, Assembly and Installation, Software, Starting-up, Safety, Maintenance & Practices Manuals.

\*References 1 to 4: SPC Unit + Data Acquisition and Data Management Software + Cables and Accessories + Manuals are included in the minimum supply for enabling normal and full operation.

**EXERCISES AND PRACTICAL POSSIBILITIES**

- 1.- Weight high precision measurement.
- 2.- Compression forces high precision measurement.

## Main screen



- Ⓘ Main software operation possibilities.
- Ⓜ Sensors displays, real time values, and extra output parameters. Sensor: Force gauge= Force measurement.
- Ⓝ Channel selection and other plot parameters.
- Ⓢ Real time graphics displays.

**SCADA**  
Edibon Control and Data Acquisition

START  
STOP  
VIEW DATA  
SAVE DATA  
QUIT

**SPC**  
WEIGHING SYSTEM WITH COMPUTER DATA ACQUISITION  
Sistema de Pesada con Adquisición de Datos desde Computador (PC)



**SENSORS**

Force Gauge

FORCE 5,00 g

**SENSOR PLOT**

Single Graph

FORCE(g)

Reset Plot Print Plot  
Enlarge Plot seconds

Signal Vs Time



Amplitude

Time(seconds)

Enlarge Diagram

**SCADA**  
Edibon Control and Data Acquisition

START  
STOP  
VIEW DATA  
SAVE DATA  
QUIT

Periodic (sec)  
1 111,8 sec

Take Data Taken Data

STOP SAVING

**SPC**  
WEIGHING SYSTEM WITH COMPUTER DATA ACQUISITION  
Sistema de Pesada con Adquisición de Datos desde Computador (PC)



**SENSORS**

Force Gauge

FORCE -0,05 oz

**SENSOR PLOT**

Single Graph

FORCE(oz)

Reset Plot Print Plot  
Enlarge Plot seconds

Signal Vs Time



Amplitude

Time(seconds)

Enlarge Diagram

## REQUIRED SERVICES

- Electrical supply: single-phase, 220V./50Hz or 110V./60Hz.
- Computer (PC).

## DIMENSIONS & WEIGHT

- Dimensions: 350 x 300 x 170 mm. approx.  
(13.78 x 11.81 x 6.69 inches approx.)
- Weight: 10 Kg. approx.  
(22 pounds approx.)

\*Specifications subject to change without previous notice, due to the convenience of improvements of the product.



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