The EQF measurement system is used to equalize the tension of the ropes of a lift. It is compact, versatile and easy to install. It can measure up to 12 plastic ropes with diameter of 6.5 mm or 8.1 mm.

Each sensor is supplied with a built-in high resolution (20 bit) AD converter in order to improve the measurement quality by reducing any electrical disturbance effects.

The sensors can be connected to an Hub. It functions as a signal concentrator, making measurements available to the Tablet. The connection to the tablet may be carried out via a USB cable or by a Bluetooth connection (optional).

The Hub, which is already installed in the Tablet, supplied with the sensors, allows the following functions:

- Display of individual tensions identified on the individual ropes
- Indication of the total weight measured, with the management of the size ratios and the most common measurement units
- Defining a tolerance band on the average tensioning value detected (with graphic indicators)
- Display of up-to-date real-time statistical indicators in order to assist the operator in tensioning equalization operations and calibration references. It gives a report (as a PDF file) stating all information related to the result of the equalization operations and calibration references.

In addition to lifts applications, the sensors can be used to regulate the tensioning of ropes installed on industrial systems. Moreover, the app can be used for portable measurement applications, both in the industrial field and for automation or research.
TECHNICAL CHARACTERISTICS

Number of ropes: from 1 to 12

Type of ropes: plastic coated ropes or metal ropes

Ropes diameter: 6,5 mm or 8,1 mm

Sensors digital output: USB or Bluetooth (optional)

Hub supply: built-in rechargeable battery (typical autonomy of 1 working day with 6 sensors and fresh battery). It cannot be replaced by the user

DEVELOPMENT AND MANUFACTURING OF CUSTOM PRODUCTS

S2Tech technical department, with 30 years of experience acquired with DS Europe, can develop products accordingly to customers technical specifications with the following tools:

- 3D mechanical design CAD software stations
- Finite Element Analysis FEA software stations
- Digital and analog electronic development accordingly to EMC (=CE) stricter industrial marking regulations (with tests in anechoic room at Competent Body third part laboratory)
- Software and embedded firmware development accordingly to most popular industrial bus systems (CANopen, Modbus, PROFIBUS...)
- Fast prototyping

S2Tech develops new products or modifies existing ones, in order to realize the fittest and more convenient product.