CABLE TENSIOMETER
KIT HF 36/LPT

Application field:

These tension meter models have been specially designed to measure the tension on cables under load without having to insert an in-line dynamometer or dismantle the installation to take the measurement.
Examples of applications:

- Telecommunications antenna guy wires
- High-voltage power lines
- Suspension bridges, walkways, or tents

Operating principle:

Tensile force measurement using strain gauges. The deflection of the cable acting through the tension meter generates a tangential force proportional to the tensile load applied to the cable. The deformation produced by this force is measured by a strain gauge bridge integrated into the sensor. The signal generated by the strain gauges is then processed by the associated electronics and displayed on the LCD screen of the linked display unit.

Technical specifications:



Capacity daN (see below)	: 1.000 - 40.000
Cable diameter below)	: 2 - 44 mm (see
Sensor material	: Aluminum
Overall error scale, depending on cable specifications	: 2 à 5% of full
Tensiometer power supply display unit	: provided by the
Display power supply battery	: 2 x CR123 3V
Battery life	: +/- 100 hours
Connection cable length	: 3 meters
Operating temperature	: -20° to +60°C
Protection rating	: IP 65
PC connection (software included)	: Via USB port

Options :

Specific calibration: The standard database includes a series of cables identified by a “calibration reference.” Each number corresponds to a calibration performed on the associated cable. The database can be expanded with specific cables or ropes — a sample of each cable type is required, and the calibration results will be added to the database.

Options:

PC Software: All our devices are supplied by default with a data management software called Loader Light, which allows the visualization of recordings saved in the display memory.
Other available software options include:

- Loader Tech: add remote calibrations
- Loader Full: add remote calibrations and manage data recordings
- Monitor: perform real-time data acquisition

Kit contents:

- 1 robust IP68 carrying case
- 1 HF36/LPT tension meter
- 1 HF87/LPT display unit
- 1 connection cable
- 1 user manual
- 2 spare CR123 batteries
- 1 USB key containing the Loader Light software
- 1 USB–mini USB cable

Models and characteristics:

Model	Capacity	Cable diameter	A	B	C
HF36/0/LPT	1.000 daN	2 à 8 mm	165 mm	140 mm	40 mm
HF 36/1/LPT	5.000 daN	5 à 13 mm	370 mm	285 mm	67 mm
HF 36/2/LPT	20.000 daN	9 à 28 mm	540 mm	300 mm	92 mm
HF 36/3/LPT	40.000 daN	20 à 44 mm	730 mm	360 mm	140 mm







