TENSIOMETER
HF 380/LPT

Application field:

Digital measuring device designed to check and record lashing tension in synthetic fiber straps.

Operating principle:

The deflection of the strap through the sensor produces a tangential force proportional to the tensile load applied to the strap. The deformation produced by this force is measured by a strain gauge bridge integrated into the sensor, which also measures the strap thickness. The signal generated by the strain gauges is then processed by the associated electronics and displayed on the LCD screen.



Technical specifications :

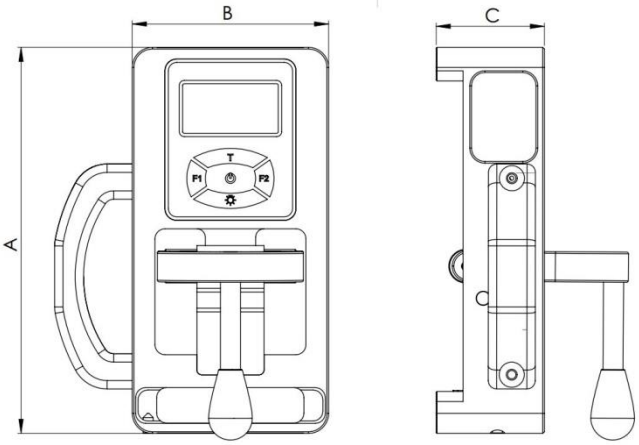
Capacity	: 1000 - 1500 daN (see below)
Sensor material	: Anodized aluminum
Admissible overload	: 125 %
Strap width	: 25 - 75 mm (see below)
Strap thickness	: 1,5 à 4 mm
Overall error	: +/- 2 à 5% (depending on the strap type)
Measurement units	: Kg, N, daN, kN, LBS
Power supply	: 2 x CR123 (3V) batteries
Battery life	: +/- 100 hours
Operating temperature	: -20° to +60°
Device weight	: 2.1 Kg
Protection rating	: IP 62

Options :

- Loader Full software (see software section)
- Monitor software (see software section)

Models and characteristics:

Model	Capacity	Strap width	A	B	C
HF 380/1//LPT	1.000 daN	25, 35 et 50 mm	230 mm	92 mm	65 mm
HF 380/2/LPT	1.500 daN	50 et 75 mm	230 mm	117 mm	65 mm



Kit contents:

- 1 IP67 carrying case
- 1 HF380/1/LPT tension meter
- 1 user manual
- 2 spare CR123 batteries
- 1 USB key containing the software (optional)
- 1 USB–mini USB cable (optional)

Data Management and Acquisition Software (optional) :

Depending on your needs, the tension meter can be supplied with two different software programs:

- Data Management Software: **LOADER**

After installing this software on your computer, it allows you to transfer recorded measurements via the USB port of the tension meter into an Excel file, ensuring full traceability of your lashings. This software can also be supplied with an optional GPS module.

- Data Acquisition Software: **MONITOR**

This software allows real-time data acquisition. Throughout the duration of a transport, it can record and reproduce on a computer a detailed curve showing strap relaxation caused by transport constraints.

System Requirements for LOADER and MONITOR Software

- 32 or 64-bit operating system
- Microsoft Windows XP, Vista, 7, or 8
- Processor: Pentium II or higher
- RAM: 256 MB
- Disk Space: 10 MB
- USB port 1.0 or 2.0
- Microsoft .NET Framework 3.5



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