TENSIOMETER FOR PRE-STRESSED CABLES
HF 46/LPT

Application field:

This tension meter has been specially designed to measure pre-stressing forces during the construction of concrete beams. Measurements can be taken on tensioned strands or rebars without the need to install an in-line sensor or dynamometer.

Operating principle:

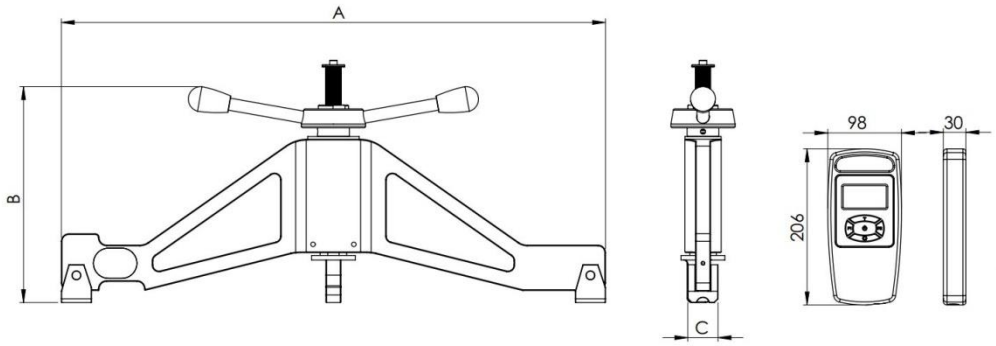
Tensile force measurement using strain gauges. The deflection of the cable acting through the tension meter produces a tangential force proportional to the tensile load applied to the cable. The deformation caused by this force is measured by a strain gauge bridge integrated into the sensor.

Technical specifications:



Capacity: 6000 to 20000 daN (see table)
Cable diameter: 4 to 16 mm (see table)
Sensor material: Aluminum
Overall error: +/-2 à 5% of full scale
Tensiometer power supply: Provided by the display
Display power supply: 2 x CR123 (3V) batteries
Battery life: +/- 100 hours
Connection cable length: 3 meters
Operating temperature: -20° to +60°C
Tensiometer protection rating: IP 65
Display protection rating: IP65
Measurement units: Kg, N, daN, KN and LBS
Memory capacity: 100 measurements
Database: Up to 10 different structures
Cable types: Ribbed bars or 1 x 7 strands

Models and characteristics:



Model	Capacity	Cable Ø	A	B	C
HF 46/1/FAB	6000 daN	4 - 8 mm	470 mm	270 mm	40 mm
HF 46/2/FAB	15000 daN	5 - 13 mm	720 mm	290 mm	40 mm
HF 46/3/FAB	20000 daN	8 - 16 mm	720 mm	290 mm	40 mm