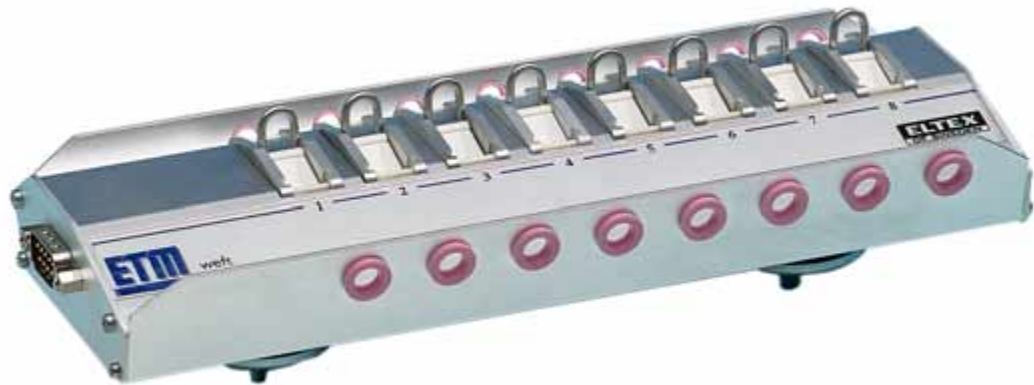


Eltex Tension Monitor

Weaving Machine Model



General Description

The Eltex electronic Tension Monitor (ETM weft) is an on-line device designed for weaving machine applications. The device continuously monitors the weft yarn tension and at the same time acts as a yarn break detector.

The ETM weft communicates with the machine computer allowing the option of displaying the weft tension as a graph and/or automatically controlling the weft brakes.

The yarn tension is measured as a force on the sensing element. The yarn angle across the element is predetermined by two guide eyelets. The necessary deviation is kept as small as possible but still allows the yarn to enter and leave the unit in any direction.

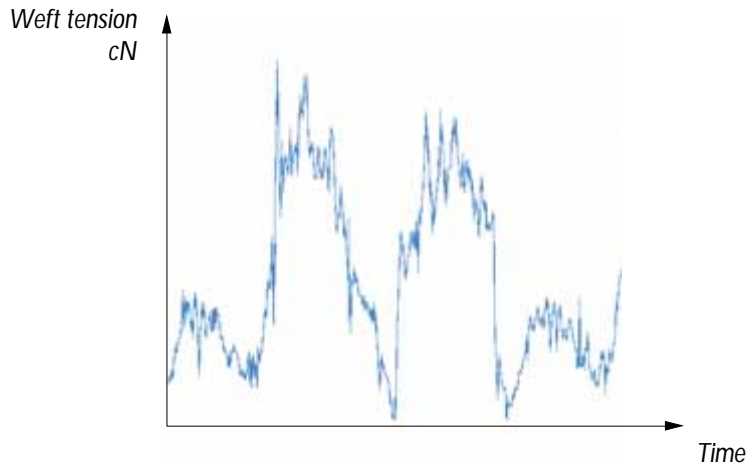
Features

- Monitors the weft yarn tension continuously.
- Generates machine stop at a yarn break.
- Stop motion for double insertion and with Anti-2 function as an option.
- The weft yarn can enter or leave the sensor in either direction.
- Robust design.

Advantages

- Weaving efficiency improvement possible.
- Improves weaving quality.
- Simplifies setting of the yarn brakes.
- Allows repeated style changes in the weft more efficiently and accurately.
- Fast sensor enables monitoring of rapidly changing yarn tension.
- Flash memory technique – future software upgrade possible.
- Overload protection.

Graph of typical weft yarn tension during insertion



Characteristics

for the Eltex Tension Monitor, weaving machine model

Supply voltage	24 V DC
Maximum current consumption	200 mA
Weft tension range	0–500 cN
Working ambient temperature range	+15–45°C
Communications	Bidirectional information exchange with the weaving machine computer. With the powerful CPU in the ETM monitor there are many possibilities to achieve advanced functions.
Dimensions 4-eyelet (width x height x depth)	150 x 50 x 80 mm
Dimensions 8-eyelet (width x height x depth)	215 x 50 x 80 mm

Models

To be decided in cooperation with weaving machine manufacturers.



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