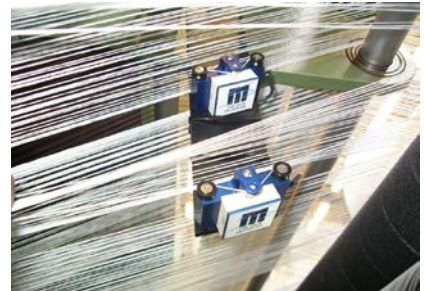


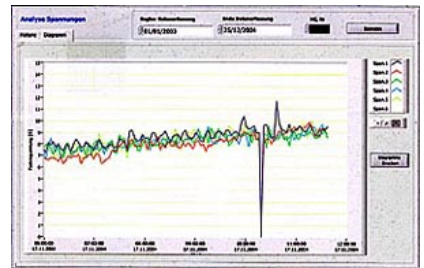
## Thread tension control unit FSM 6 with optional data recording



Control unit FSM 6



Thread tightening sensor FSS 100



Course of thread tightening

### Description:

Powerful and reasonably priced solution for a permanent digital single-thread measurement and production data recording.

### Features:

Using the control unit FSM 6 it is possible to measure 6 analogue signals from the thread tension sensor FSS 100. The display shows the measured values and exceeding the entered limit value is indicated.

The machine is stopped via corresponding outputs or the thread feed is readjusted.

In addition to the basic function of thread tension controller it is possible to record the production data by means of an additional PC module.

Thus, the following data can be recorded and evaluated:

- Alarm counter / stop counter
- Metre counter
- Rotational speed in rpm
- Operation time and standstill of the machine
- Efficiency
- Further parameters upon specification by the customer

## **Technical Data:**

### Control unit FSM 6

Voltage supply	50/100/200	cN
Analoque inputs	6	
Digital inputs	10	
Digital outputs	6	
Voltage supply for FSS 100	12 V	50 mA
Serial interface	RS 485 (MODBUS RTU)	
Front plate dimensions	144 x 144 mm	

### Thread-tension-sensor FSS 100

Nominal load F (thread-tension)	50/100/200	cN
Output at nominal load	4,5 +/- 0,1	V
Offset at no load	0,5 +/- 0,05	V
Measuring error (without friction)	<0,5	cN
Error of temperature zero	<0,5	% v.E./K.
Error of temperature sensitivity	<0,5	% v.E./K.
Nominal temperature range	0,5 ...+70	°C
Kompensated temperature range	+20.....60	°C
Nominal input voltage	+12 +/-0,6	V DC
Nominal input current	ca. 5	mA
Frequency of response	ca. 1,2	kHz
Frequency range of electronics	>5	kHz
Load resistor	0,3... 1,0	kΩ
Protection typ	IP54	
Dimensions (see fig.)	50 x 20 x 40 mm	
Thread guide/Force introduction	kugelgelagerte Rollen/Keramik Stift	