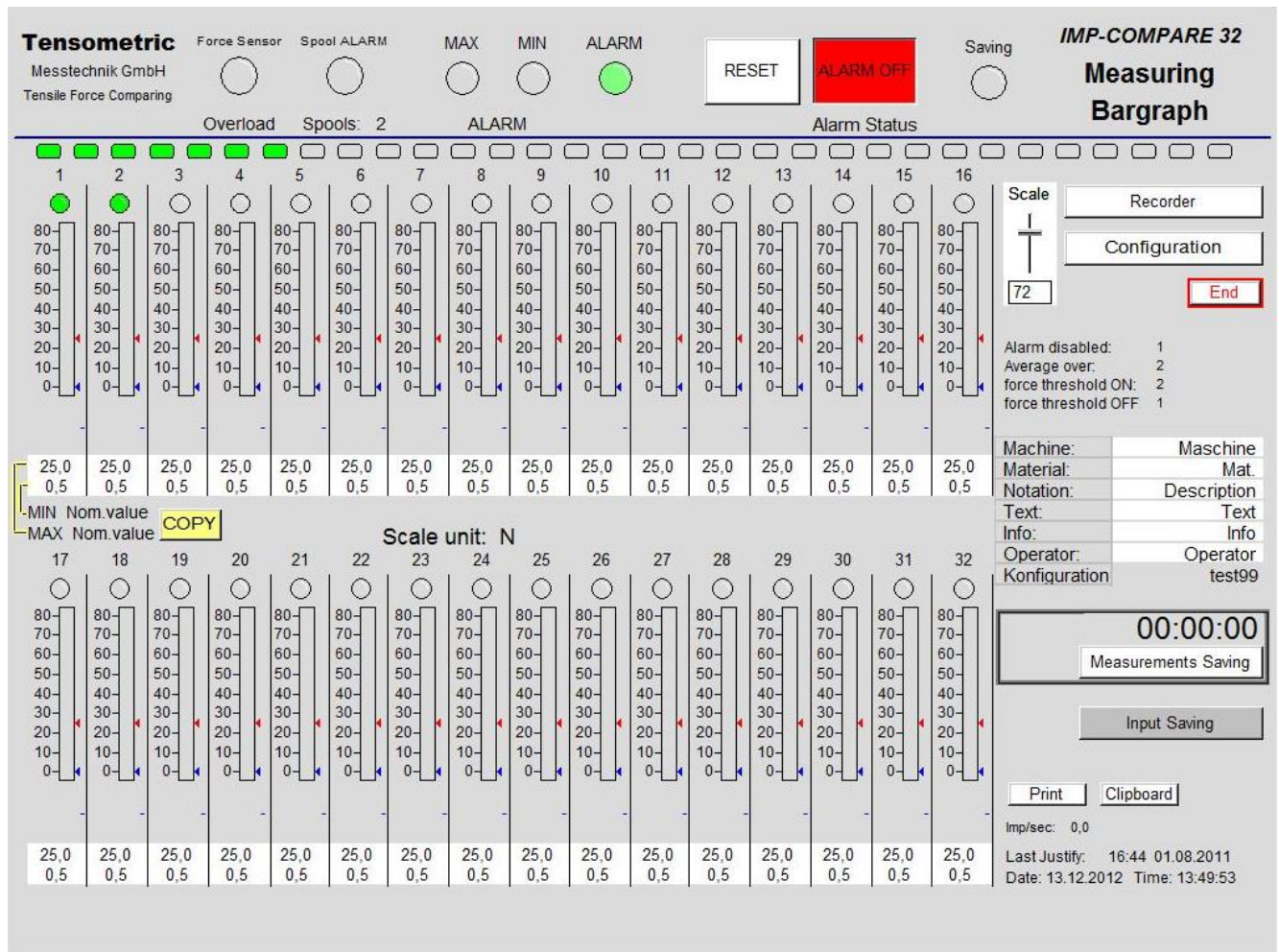


Software tensile force comparator IMP-COMPARE-32

Version 1.3



valid for software IMP-COMPARE, Version 1.3

In delivery included:

- 1 force sensor
- 1 option: sled with skid slide bar for force sensor
- 2 inductive proximity switches
- 1 measuring amplifier box
- 1 connection cable
- 1 CD-ROM Driver
- 1 CD-ROM DasyLab Software and IMP-Compare Software

Installation of sensors in the machine

The sensor system is consisting of a force measuring sensor and two contactless proximity switches.

The force measuring sensor must be arranged at the machine in such a way that all measured threads are deflected one time during a single machine revolution and so one force momentum per thread can be measured.

The proximity switches provide information for evaluation of the force pulses which are measured by the sensor.

An indicator must deliver a pulse when a thread passes the sensor, and before the next thread reaches the sensor.

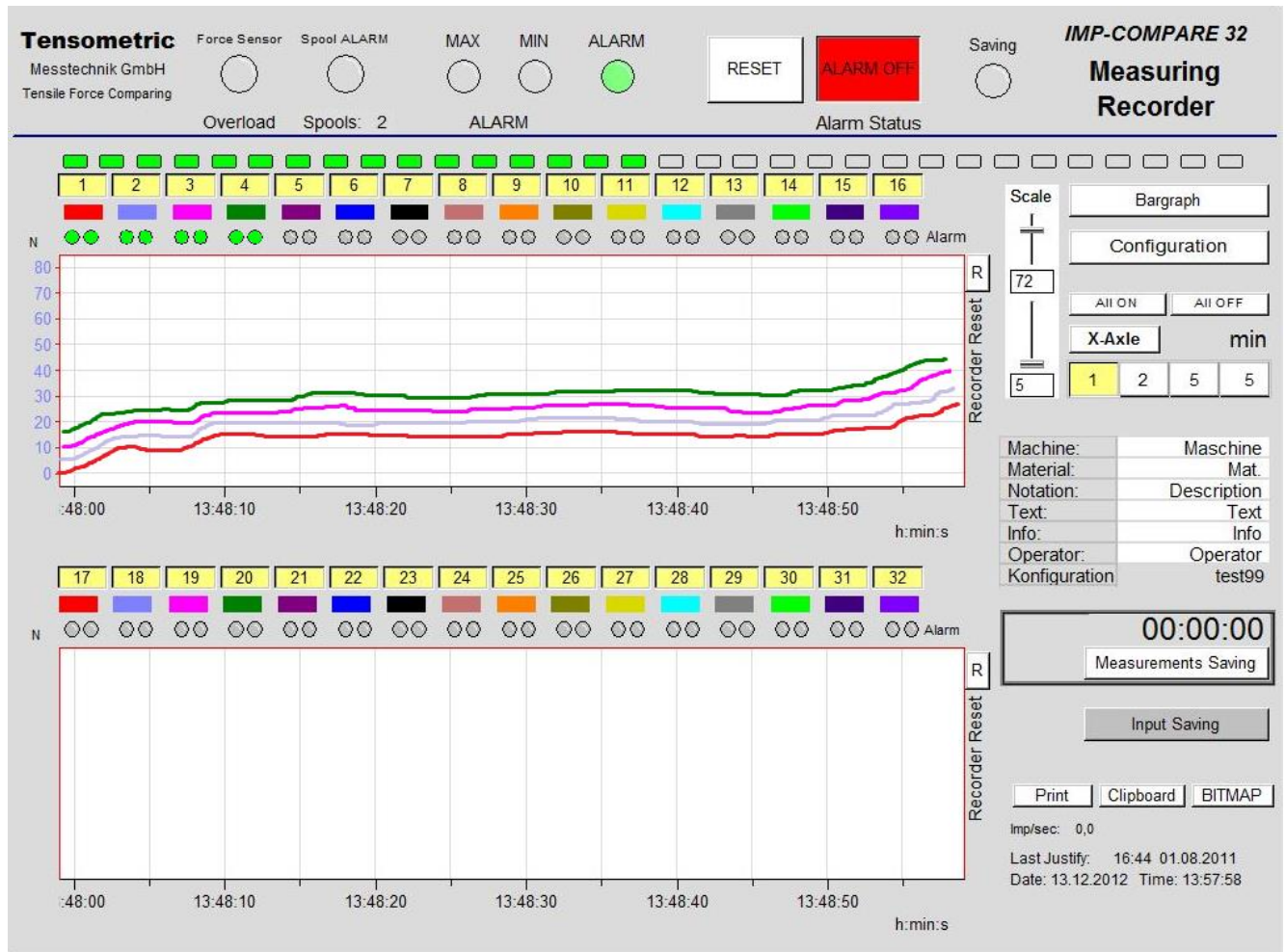
It is called "spool sensor".

The second proximity switch delivers a pulse during each complete machine revolution.

It is called "turn sensor".

The pulses of the "spool sensor" and "turn sensor" must be provided between two threads. The pulse of the "turn sensor" may come before impulse of "spool sensor". In this process these two impulses may not overlap at any time.

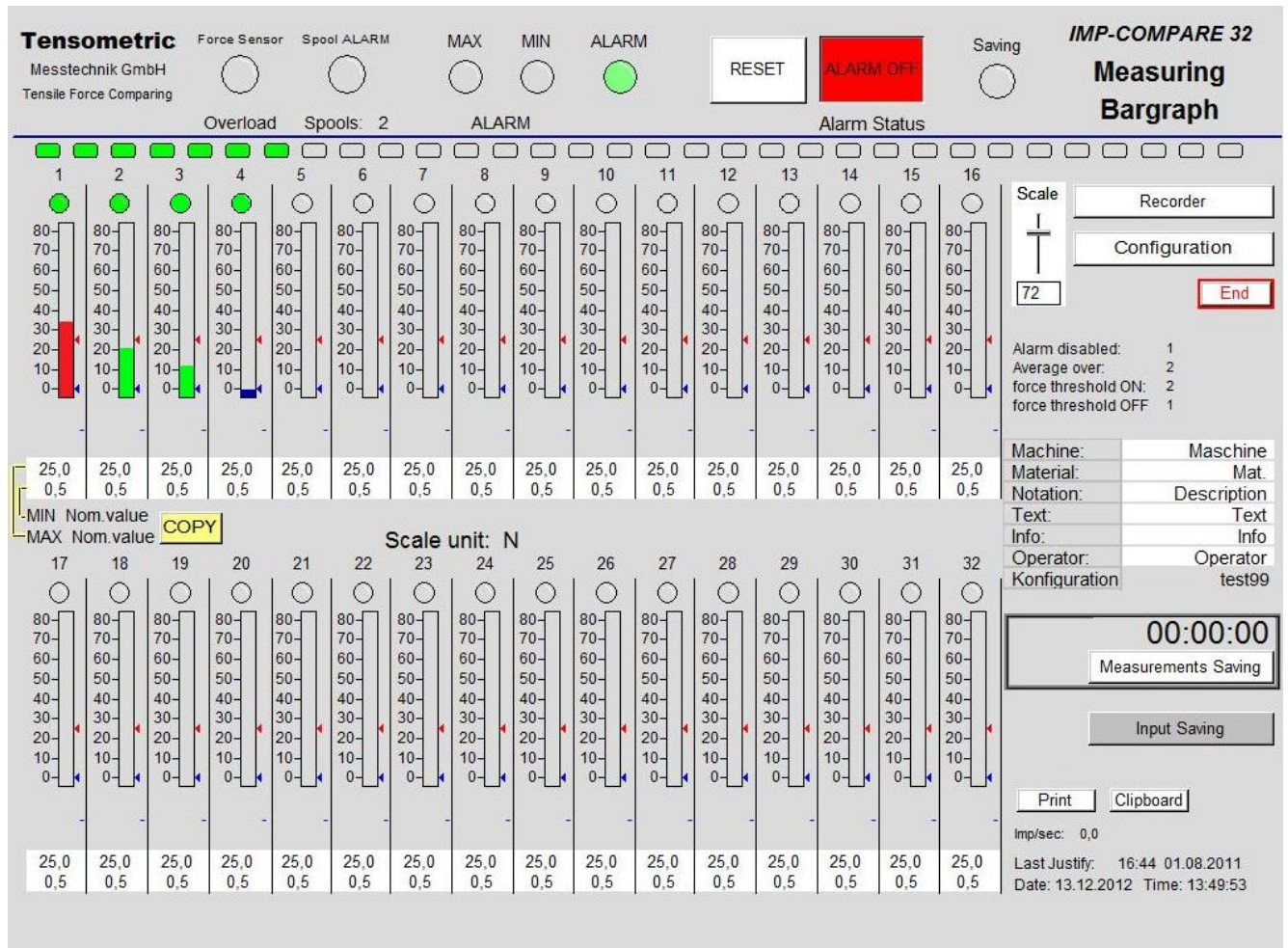
Measurement display screen



On this screen the force progression of the measured spools is displayed. At every machine revolution the tensile force of every single spool is measured.

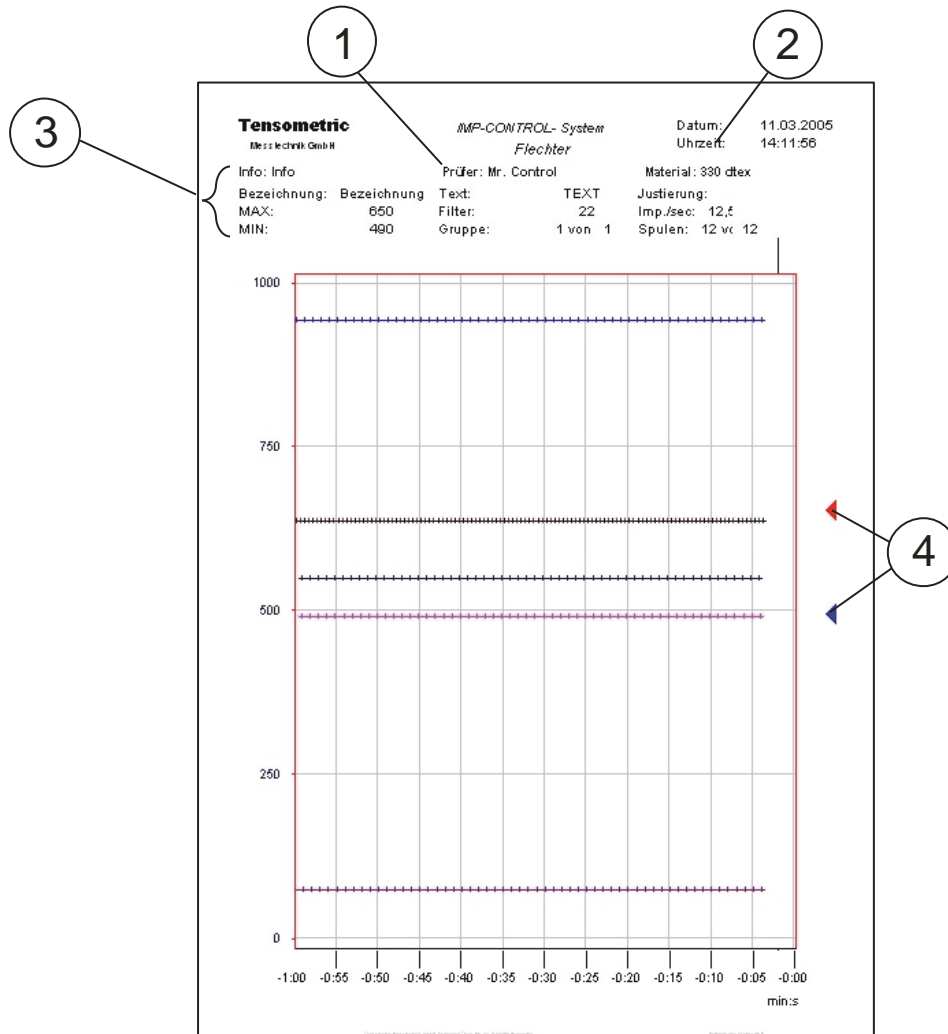
One measured value per spool is recorded. The measured values for each spool are combined on the line recorder, so the chronological force progression is visualised.

The tensile force progression of each spool can be switched on or off by buttons 1 – 32.



In addition the tensile force is displayed by bars.
 If the measured force is higher than the adjusted setpoint limit, then the bar is colored red.
 If the measured force is less than the adjusted setpoint limit, then the bar is colored blue.
 If the measured force is less than the adjusted MAX setpoint limit, and higher than the adjusted MIN setpoint limit, then the bar is colored green.

Record



The record is consisting of lettering and charts of the display screen

- 1 = Headline, from entry "machine"
- 2 = Date and time of record print-out
- 3 = Project- related data
- 4 = MIN- MAX marks

