



## You do not have to be an expert to know how important the correct rope tension is in elevators.

Insufficiently adjusted ropes and excessive total weights result in undesirable and premature wear. Thanks to the WeightWatcher rope load measuring system the rope adjustment and the weighing of car and counterweight becomes child's play. Due to the patented measuring principle the exact loads in each rope can be measured, within seconds, without the necessity of prior calibration with weights. The integrated rope adjustment wizard will guide you through the rope adjustment and logs each measurement in a report that can later be manipulated on the PC. This makes the WeightWatcher the optimum tool for your service to customers.

### Summary of the advantages:

- Time-saving rope tension adjustment through integrated wizard
- Rapid weight determination of car and counterweight
- Unnecessary wear of ropes and traction sheaves is avoided
- For rope diameters between 4 mm and 24 mm
- Memory for up to 100 measurements
- Big illuminated touch display and USB interface in series production

- Yes**, I am interested in your product  
Mobile Rope Load Measurement
- I am also interested in your product:
  - Overload Control System Weight Watcher
  - measurement of ride quality according to ISO 18738 with LiftPC mobile Diagnosis
  - Overload Control System WeightWatcher light
- Please contact us

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## Mobile Rope Load Measurement up to 12 ropes/belts

simple weight determination of car and counterweight

time saving rope tension setting

stores up to 100 measurements for documentation



Flyer\_MSM12\_eng\_2009-9



The mobile rope load sensors of the WeightWatcher system can be installed completely within seconds:

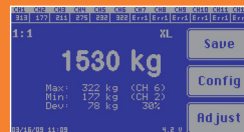
On each rope a load sensor is mounted. After fitting the sensor to the rope only the clamping lever is shifted.



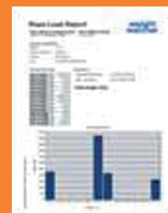
Up to 12 sensors are simply plugged into the evaluation unit MSM12. This immediately indicates the total weight and the individual rope loads **without calibration with weights**.



Up to 100 rope load measurements can be stored in the internal memory of the MSM 12 ...



... in order to store them for the purpose of quality assurance in a data base or to file them as a document or print-out respectively:

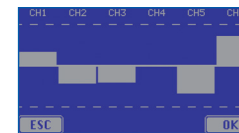


## Prevent unnecessary wear of ropes and traction sheaves!

A particular highlight is the integrated adjustment wizard for optimum rope tension:

In this way the uniform rope adjustment becomes child's play: Within a few minutes the wizard will take you through the rope adjustment which has already been calculated for each rope by the evaluation unit.

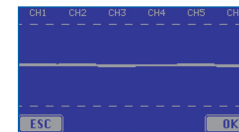
The rope adjustment wizard presets an adjustment value in advance for each rope.



As soon as the user has adjusted all ropes to the indicated target value ...



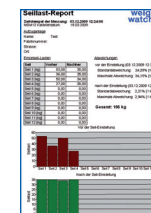
... the setting is finished.



For the purpose of documentation the rope adjustment can be stored in the unit.



Even in the case of complicated suspension variants and many ropes the optimum rope adjustment becomes child's play taking up very little of your time.



## Evaluation unit MSM12

Technical data evaluation unit MSM12	
Power supply	4 round-cells, LR6 AA
Number of measuring channels	12
Sampling frequency	100 Hz
L x W x H (mm)	190 x 138 x 46
Interface	USB 2.0

### Option Bluetooth

Technical data see standard type, in addition one Bluetooth Interface	
Aerial	external with link
Bluetooth class	2
Max. wattage	2,5 mW

### Rope load sensors LSM



Sensor LSM1 for rope Ø 6 - 16 mm    Sensor LSM2 for rope Ø 4 - 10 mm    Sensor LSM-XL for rope Ø 16 - 24 mm    Sensor LSM-Belt for rope Ø 30 + 60 mm

Technical Data	LSM 1	LSM 2	LSM-XL	LSM-Belt
Rope diameter	6 - 16 mm	4 - 10 mm	16 - 24 mm	30 + 60 mm
Measuring range	0 - 500 kg	0 - 300 kg	200 - 2000 kg	0 - 500 kg
Maximum load	1000 kg	600 kg	4000 kg	1000 kg
Breaking load	2000 kg	1200 kg	6000 kg	2000 kg
L x W x H (mm)	250 x 75 x 19	178 x 58 x 16	570 x 210 x 50	230 x 120 x 82
Cable length	0,8 m	0,8 m	1,5 m	0,8 m

Description	Id.-Nr.
Set MSM12 + 4 LSM1 in aluminum case	455100
Set MSM12 + 4 LSM2 in aluminum case	455200
Set MSM12 + 4 LSM-XL	455300
Bluetooth Extension	455110
Protection case MSM12	455099
Transport case LSM-XL	455310