

RTM - Rope Tension Meter



Foto: Teracom



The RTM can be used in applications where accurate measurement in pre loaded wire ropes is required.

Such applications can be stay ropes, suspension ropes, catenary ropes etc.

The RTM is applied direct to the rope and the measured tension value is presented digitally.

GIGAsense

Gigasense products within Force Measurement and Crane Safety are well known high quality products, built from many years' experience and used by leading heavy duty industry around the world.

Gigasense products meet the highest demands of performance level requirements.

We are represented by many selected local partners in more than 30 countries on six continents.



Rope Tension Meter

Range of application

The RTM was designed to swiftly and accurately measure the tension in fixed or stationary ropes or cables i.e. guy wires for masts and/or towers or other guyed constructions. The RTM will also be very useful in determining the tension in overhead suspension ropes for railways catenaries.

The RTM can be used to measure tension forces up to 20 metric ton and for wire ropes with a diameter of up to 38 mm.

Thanks to the use of microprocessor technology the RTM can be calibrated on up to 10 different wire rope dimensions/tyes. The digital read out display will clearly show the tension of the wire rope selected. No calibration tables are required.

Function

The RTM is very simple and handy to use. Simply hold and "clip" it to the rope to be tested and use the large hand screw to deflect the rope to a fixed angle.

The resultant force will then affect the load cell and measure the tension in the wire rope. The resultant signal is digitally processed and displayed in a graduation selected and pre programmed. The RTM can be graduated in kN, klb. or in metric ton

Safety

The RTM is a delicate testing instrument for swift, handy and accurate testing of pre tensioned stationary ropes. Thanks to the design of the instrument it can temporarily be overloaded with 100% of its nominal capacity without affecting the accuracy of the instrument.

Tempered outer rope supports and centre clamping jaw give the instrument a long service life with accurate measurements.

The RTM is delivered in a robust and light weight transport case (760 x 400 x 170 mm) for easy handling and protection of the instrument.

Technical Data

CAPACITY, MEASUREMENT RANGE

2 ton
5 ton
10 ton
20 ton

ROPE DIAMETERS

From 6 mm up to 38 mm.

NUMBERS OF ROPES TO BE STORED

Up to 10 (factory programmed).

ACCURACY

2-6% of max. capacity (dependent on wire rope type and characteristics).

DISPLAY

Digits 12 mm, LCD, 0-19999.

BATTERY

9 V standard, 6LR61 or equivalent.

OPERATING TIME

25 hours.

MATERIAL

Corrosion and weather resistant, side plates anodised aluminium.

DIMENSION

135x 380 x 685 mm.

WEIGHT

6,2 kg net.

ENVIROMENT:

TEMPERATURE RANGE

-20 to +60 degrees Centigrade.

PROTECTION CLASS

Conforms to class IP 65 according to IEC 529. NEMA 13.

