



A major difficulty installing transmission belts is to achieve a correct belt tension. Lifetime of support bearings and transmission belts and therefore reliability of the complete system largely depend on an optimally adjusted belt tension. In case of linear actuators, only a correctly adjusted belt tension provides the best possible positional accuracy.

The belt tension measuring device **RSM2005** allows to measure the actual belt tension. The **RSM2005** is applicable with all industrially used types of transmission belts, such as: flat belts, V belts, toothed belts, poly-V belts etc.

The microcontroller based **RSM2005** measures through a highly sensitive sensor vibrations and calculates by numerical filtering the eigen-frequency of tensioned belts.

In addition – given the specific mass of a belt and its free vibrating length – the **RSM2005** provides directly the corresponding belt tension in Newton.



# Belt Tensioning Device RSM2005

## Technical Data:

Housing Material	ABS
Dimensions	162mm long x 61,6mm wide x 30mm thick
Mass	160g (main unit)
Display	LCD
Power Supply	Dry cell (AAA) x 4pcs
Accessories	Sensor microphone, dry cells (AAAx4pcs) carrying case
Measuring Range	0,1 N ÷ 9999 N, 30 Hz ÷ 600 Hz
Belt Span Length	0,001 m ÷ 9,999 m
Unit Mass	0,001 kg/m ÷ 9,999 kg/m
Working Temperature	- 10 °C ÷ + 60 °C

## MEGADYNE GROUP

MEGADYNE s.r.l. – via Trieste, 16 - 10075 MATHI (TO) – ITALY

Ph:+390119268052 FAX:+390119268487

MEGADYNE S&D – Corso Kennedy, 8 – 10070 ROBASSOMERO (TO) - ITALY

Ph:+390119241740 FAX:+390119241746

MEGADYNE AMERICA – 10348 Southern Loop Boulevard – PINEVILLE NC 28134 – USA

Ph:+17045835388 FAX:+17045835355

MEGADYNE CE – Piekna 13 Street, 85-303 BYDGOSZCZ – POLAND

Ph:+48523487712 FAX:+48523487715

MEGADYNE CHINA – 1/Floor, Building No.4, Yong Hong Industrial Area, Da Fu South Road,  
Foshan GUANDONG 528000 – CHINA

Ph:+8675783815530 FAX:+8675783828207

MEGADYNE CZ – Ocelářská čp. 891 – 19000 PRAGUE 9 – CZECH REPUBLIC

Ph:+420284817181 FAX:+420284812486

MEGADYNE DO BRASIL – Rua Maria Curupaiti 1169 Imirim SP.CEP.024252 – 002 SAO PAULO

Ph:+551162364332 FAX:+551162366683

MEGADYNE EE – St. K. Chornogo 31 – Office 901 – MINSK – BELARUS

Ph:+375172802486 FAX:+375172856467

MEGADYNE FRANCE – ZI LES BORDES – 15, Rue Gustave Madiot – 91923 Bondoufle Cedex

Ph:+33160798200 FAX:+33160798201

MEGADYNE GmbH – Nikolaus Otto – str. 24 – 33178 BORCHEN – GERMANY

Ph:+49525187350 FAX:+4952518735200

MEGADYNE SLOVAKIA – Blatná na Ostrove 199 – 93032 BLATNÁ NA OSTROVE

Ph:+421315511122 FAX:+421315511122

MEGADYNE U.K. – Gildersome Spur – LEEDS – LS27 7JZ – ENGLAND

Ph:+441132382910 FAX:+441132383870

MEGADYNE HU – Mag u.3. 10/1 – 1214 BUDAPEST – HUNGARY

Ph:+3614270406 FAX:+3612785279

MEGADYNE RUBBER – Ctra de l'Arboç, Km 1,7 – 08800 VILANOVA I LA GELTRÚ –  
BARCELONA – SPAIN

Ph:+34938115450 FAX:+34938115470