

Large Running Line Monitor RLM200T

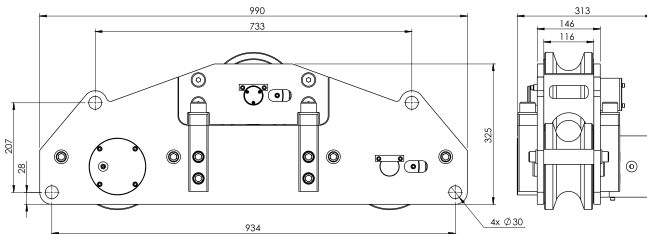
The DLM 200t Running Line Monitor measures the tension on a rope passing through its three wheels. Typically used in cable laying and winch operations to measure and record line tension its robust design make it the industry leading line tension monitor.

- Designed specifically for harsh marine type environments its modular easy to rig design allows for quick setup, installation and servicing.
- Can be supplied with various diameter wheels to suit particular rope diameters.
- Light weight, machined flat plate design.
- The centre wheel axle is a gauged load pin load cell with integrated 4-20mA amplifier and subsea rated connector all sealed to IP68.
- Line speed and distance is measured using an integrated rotary encoder mounted onto the bottom encoder wheel, in a sealed IP68 housing.
- The monitor can be supplied as a separate item for integration with customers existing PLC's or with a DLM digital display cabinet/TFT touch screen.

Standard Available Wheel Sizes

Rope Diameters (mm) 38 40 42 44 48 52 56 58 60

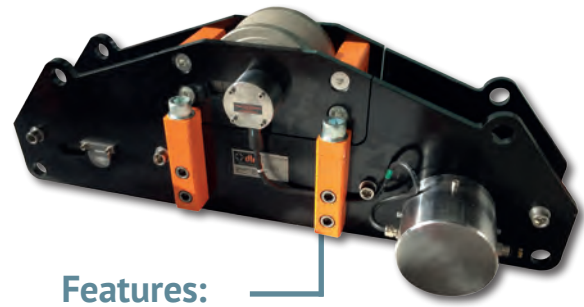
Dimensional Data



Specification

Part number: 0001 - 1109

Frame Construction:	CNC machined side plates / Side plates fixed together using high tensile stainless steel bolts and supporting spacers. No welded joints / Dual frame modular construction (upper and lower) for easy rigging and rope insertion / IP68 O ring sealed encoder protection casing, located to the side of encoder wheel on lower frame or upper and lower frames attached together using high tensile stainless steel bolts / Marine grade cylindrical roller bearings nvp209 used on all wheels
Frame Finish:	Colour to suit customer requirements (orange and black standard) / Epoxy powder coat (170µ thickness as standard) / Optional zinc plating prior to powder coat for extra protection
Wheel Material:	EN24T alloy steel (hardened to 40 rockwell upon request)
Axles and Shear Pin Material:	17-4PH H1150 + 1150 stainless steel
Shear Pin Load Cell Axle:	Suitable for line tensions up to 200t / Connection through MCBH-3-FS and MCIL-3-MP subsea connectors and IP68 gland to sealed / Encoder casing / O ring sealed
Amplifier:	3 Wire 4-20mA current source / 11-24VDC Powered / Mounted in load pin head, signal and power connection through MCBH-8-MP bulkhead connector shared with Encoder output and input, mounted on Encoder protective casing
Encoder:	Mounted inside o ring sealed Encoder casing bolted to frame / Push-Pull quadrature output / 11-24VDC powered / Signal and power connection through MCBH-8-MP bulkhead connector shared with Amplifier output and input / located in bottom encoder casing mounted to wheel axle by Encoder coupling
RLM Mounting:	4 machined eyes located on each side plate for easy rigging to spooling gear or for use as lifting points / Machined stainless steel spacers double as lifting or carrying points
Optional Extras:	Fleeting gear / Mounting posts / Mounting brackets



Features:

- Huge 200t line tension capacity
- Carrying points allowing easy and safe portability
- Fully sealed design to IP68
- Double sealed roller bearings in each sheave
- Grease ways and greasing nipples on each axle for easy maintenance.
- Robust design suitable for offshore industry
- Integral speed and distance measurement as well as tension
- Easy to rig without the need to remove sheaves from axles
- Lifting and securing points
- Optional mounting fixtures

Applications:

- Winch load monitoring
- Towing and salvage
- PLGR
- Cable laying
- Crane load monitoring