

technical data sheet

dynafor™ series LLX1
Electronic traction dynamometer
W.L.L. : 0.5 to 20 t

ref. : **T 2435 GB**
rev. n° : -
date : **04/12**
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Description

The dynafor™ LLX1 dynamometers are precision force sensors used to measure forces and indicate loads. The shape of the dynamometers enables the use of standard shackles on both ends. The dynamometers of this range function in all positions for the measurement of force and suspended for weighing purpose.

Operating Principle

Strain gauge measurement of the extension, within its limits of elasticity, of a metal body subjected to traction stress.

The sensor generates an electrical signal that is proportional to the load. This signal is processed by a micro-processor analyser and then displayed on a built in LCD display.

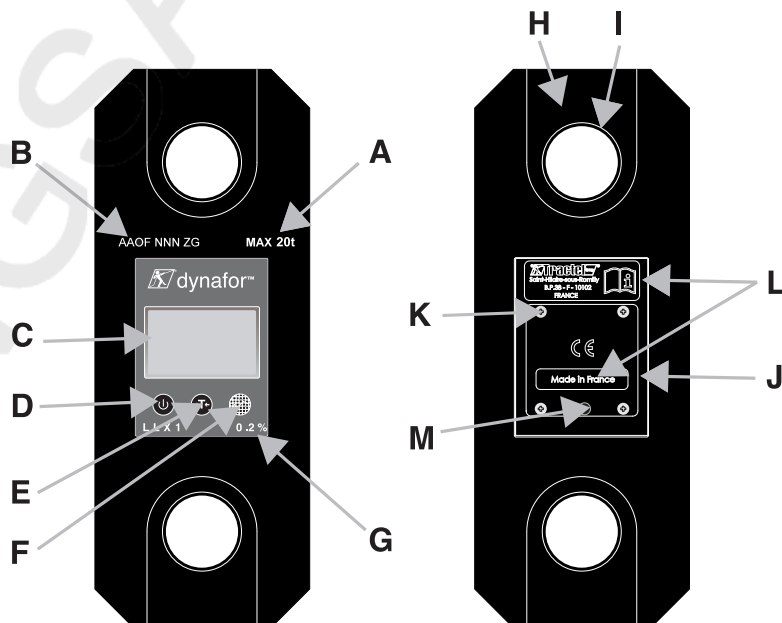
Technical Specifications

- Capacities from 0,5 t up to 20 t
- Precision: 0,2 % of full scale.
- Safety coefficient : minimum 4
- Power supply : 3 batteries 1,5 V "AA" or 3 rechargeable batteries 1,2 V "AA"
- Packaging : plastic carrying case
- Protection : IP 65 (NEMA 4)
- See details on page 2

Options and accessories :

- Bow shackles
- Swivel hooks
- Radio Remote display, type LLX1.

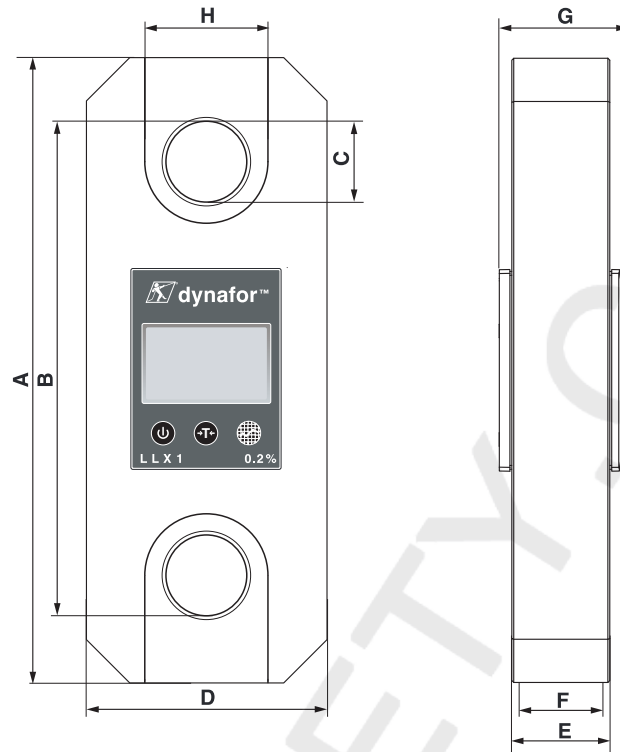
| | |
|----------|---------------------------|
| A | Capacity |
| B | Serial No. |
| C | LCD screen |
| D | T1 ON/OFF button |
| E | T2 Tare button |
| F | T3 Peak load button |
| G | Accuracy |
| H | Sensor weight |
| I | Hole for shackle |
| J | Battery compartment cover |
| K | Mounting screw |
| L | Manufacturer's markings |
| M | Programming jack |



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| MODEL | | LLX1 0.5 t | LLX1 1 t | LLX1 2 t | LLX1 3.2 t | LLX1 5 t | LLX1 6.3 t | LLX1 12.5 t | LLX1 20 t |
|--------------------|-------|-------------------------------|-------------|-------------|---|-------------|---------------|----------------|--------------|
| Maximum capacity | t | 0.5 | 1 | 2 | 3.2 | 5 | 6.3 | 12.5 | 20 |
| Test load | t | 0.75 | 1.5 | 3 | 4.8 | 7,5 | 9.6 | 18.75 | 30 |
| Safety coefficient | | Minimum 4 | | | | | | | |
| Precision | | 0.2 % FS | | | | | | | |
| | ± daN | 1 | 2 | 4 | 6 | 10 | 13 | 25 | 40 |
| Increment | daN | 0.2 | 0.5 | 1 | 1 | 2 | 2 | 5 | 10 |
| Max. Display | daN | 110 % maximum capacity | | | | | | | |
| Number height | mm | 18 | | | | | | | |
| Autonomy | | 450 h (Batteries 1.5 V "AA ") | | | | | | | |
| Weight | kg | 1.1 | 1.1 | 1.3 | 1.5 | 2.3 | 2.3 | 4.3 | 7 |
| IP Protection | | I.P. 65 | | | | | | | |
| Usafe | | From - 20° to 40°C | | | | | | | |
| Sensitivity to T° | | 0.05% per 10°C | | | | | | | |
| Sensor material | | Aluminium | | | | | | | |
| Dimensions mm | A | 220 | 220 | 233 | 243 | 275 | 275 | 343 | 371 |
| | B | 196 | 196 | 207 | 207 | 217 | 217 | 257 | 269 |
| | C | 14 | 14 | 22 | 22 | 28 | 28 | 42 | 54 |
| | D | 90 | 90 | 100 | 100 | 115 | 115 | 125 | 134 |
| | E | 32 | 32 | 32 | 32 | 32 | 32 | 51 | 67 |
| | F | 16 | 16 | 24 | 24 | 29 | 29 | 48 | 64 |
| | G | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 | 66.5 | 67 |
| | H | 45 | 45 | 50 | 50 | 57 | 57 | 62 | 66 |
| Radio option | | RF technology: Zigbee 2.4 GHz | | | Range : 40 m in free field, see details in operation manual | | | | |