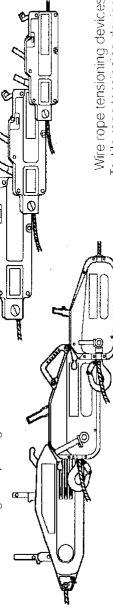
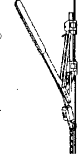


OTHER MACHINES AND LIFTING ACCESSORIES

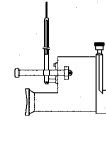
TIRFOR lifting and pulling machines



Wire rope tensioning devices
Textile rope tensioning devices



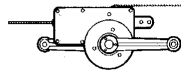
TRALIFT
chain hoists



Hydraulics jacks



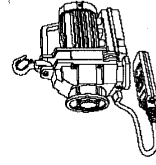
Mechanical jacks



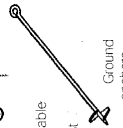
SCAFOR
manual
reeling
hoist



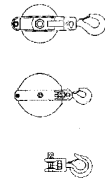
BRAVO
lever hoist



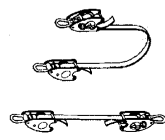
MINIFOR portable
electric
wire rope hoist



Ground
anchors



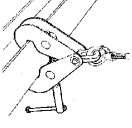
Hooks and pulleys



LOCKAY adjustable slings



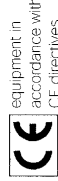
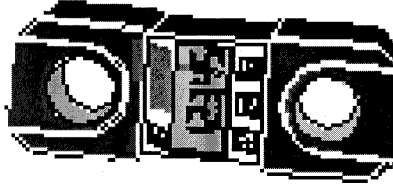
Slings



CORSO beam clamps

dynafor[®]

LCD load indicating devices with radio transmission LLX - TR range



equipment in
accordance with
CE directives

operating
and
maintenance
instructions

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5-1 Hand held display radio receiver

- A single model of hand held display suits all units of the DYNAFOR[®] LLX-TR range.

- N.B. : Please carefully read the following instructions before using the hand held display.**



The button T1 on the hand held display radio receiver is used for starting and stopping the DYNAFOR® LLX-TR remotely. The ON/OFF switch of the hand held display radio receiver is on the side of the case.

To switch off, slide the ON/OFF switch on the side of the case to the OFF position.

To indicate the correct operation of the radio transmission, the unit of measurement on the display of the hand held display flashes.



Tractel Group

Set up of the various functions and operation of the DYNAFOR® LLX-TR are all possible by use of a sequence of operations of the 3 push-button controls on the front of the unit.

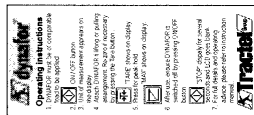
When the batteries become low, there is an indication for "low battery condition" on the display.



The radio link allows the use, according to his need, to transmit the load measured to a portable hand held display.

- At the above equipment is described in this manual.

the main advice,

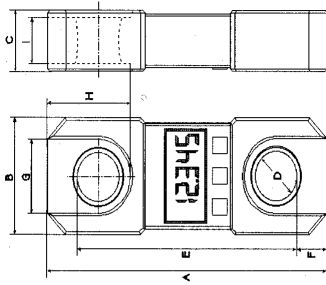


To install the DYNAFOR® LLX-TR within a lifting or a pulling system, use anchor shackles and/or swivel hooks which have been specially selected for use with DYNAFOR® LLX-TR units and detailed in our catalogue.

Tracel Group

2- TECHNICAL DATA

2-1 Specification and dimensions



Model	LLX-0.25	LLX-0.5	LLX-1.25	LLX-2.5	LLX-5	LLX-12.5	LLX-25	LLX-50	LLX-100	LLX-250
Capacity	0.25	0.5	1.25	2.5	5	12.5	25	50	100	250
Accuracy	±0.5	±1	±2.5	±5	±10	±25	±50	±100	±200	±500
Stroke/displacement	0.1	0.2	0.5	1	2	5	10	20	50	100
Test load	0.5	1	2.5	5	10	25	50	85	145	333
Max. display	250.0	500.0	1250.0	2500	5000	12500	25000	50000	100000	250000
Height of digits	18	18	18	18	18	25	25	25	25	44
Weight	1.1	1.1	1.1	1.4	1.9	3.8	6.6	15.1	46	115
Material	Aluminum alloy									
Dimensions										
A	130	190	190	214	226	310	380	440	660	955
B	83	83	83	83	90	110	134	164	260	414
C	56	56	56	56	56	58	68	98	112	246
D	16	16	16	24	32	47	56	72	106	190
E	166	166	166	184	197	243	272	332	488	685
F	12	12	12	15	14.5	33.5	44	54	86	110
G	47	47	47	47	54	70	84	104	174	250
H	43	43	43	50	58	92	114	142	227	310
I	16	16	16	25	32	48	59	86	104	190
J	76	76	76	76	76	75	76	76	76	76



b. Peak Hold



This function holds on the display the maximum load applied (e.g. in a break test or a dynamic load which is reached momentarily and may not be seen).

With the unit switched on, press the Peak Hold button (T3). Max appears on the lower portion of the display.



Press the Peak Hold button T3 a second time to return the display to the current load applied, if any.

N.B. : The Peak Hold button function automatically over-rides the response rate (programme C2 of the unit configuration) held in the memory so that there is virtually continuous monitoring of the load. The display is updated 40 times per second.

2-2.4 Stop



To switch off the unit, press T1 button.



The display will show : -5-OP- for a few seconds and then go blank.

2-3 Storage / Transport

When the DYNAFOR® LLX-TR is not in use, it is recommended that the unit should be stored in its packing case for storage and/or transport, together with the hand held display.

Should the unit be not used for a prolonged period, it is advisable to remove the batteries.

3- SAFETY

The DYNAFOR® LLX-TR is designed to operate within an ambient temperature range of -10°C to +40°C. For operation at the temperatures greater than +40°C, the unit should be protected by a thermal screen or cooling cover.



6- MAINTENANCE

The DYNAFOR® LLX-TR does not require any particular maintenance other than regular cleaning of the outside surface. Should the unit be stored for a long period, remove the batteries from the DYNAFOR® LLX-TR and hand held display receiver. Store it in cool dry place.

7- STATUTORY CONTROLS

It is recommended that the user should have the DYNAFOR® LLX-TR recalibrated annually. Recalibration can be done by TRACTEL S.A. at Saint-Hilaire-sous-Romilly, or contact your supplier for advice. The frequency of recalibration is linked to the level of usage, but should not, in accordance with the standard NF-AQ3-510 paragraph 6.3.2, exceed 26 months.

8- TROUBLE SHOOTING

On the DYNAFOR® LLX-TR on its own :

Problem	Cause	Remedy or Action
Nothing is displayed when switching ON	Power supply problem.	Check the positioning, connections and condition of the batteries.
If the display shows : 	Deformed test body or fault in the strain gauges	Return the DYNAFOR® LLX-TR to the After Sales Service Department.

Radio remote display :

Problem	Cause	Remedy or Action
The display of the remote display only shows the TEST procedure (i.e. all the segments are displayed)	The link between the remote display and the DYNAFOR® LLX-TR has not been made	Check: - That the unit is on - That the configuration of the DYNAFOR® LLX-TR is C4 - 1, for operation with a remote display (See section 2.2.2 use of radio transmission)
The display of the radio remote display does not change.	Communication between the radio remote display and the DYNAFOR® LLX-TR has interrupted.	Check that : - the unit is operating - the user is not beyond the transmission range The connection is on stand by Press one of the buttons on the radio remote display to restart the connection.

GENERAL WARNING

- 1 - Before using the DYNAFOR® LLX-TR, it is essential for the safe and correct operating of the equipment that this manual be read and fully understood and that all the instructions be followed. This manual should be made available to every operator. Extra copies of this manual will be supplied on request.
- 2 - DYNAFOR® LLX-TR units are used in lifting applications which require complete safety of operation. Therefore, ensure that this unit is only handed over for use or rigging to an operator who is trained to operate it in a safe and responsible manner.
- 3 - Never apply to the DYNAFOR® LLX-TR a load or effort greater than the working load limit and never use it for an application for which it is not intended. Never apply twisting or flexing efforts to the DYNAFOR® LLX-TR, apply only traction efforts.
- 4 - Ensure that your equipment is not subjected to knocks, particularly to the front display and the side areas.
- 5 - Ensure that your equipment is not handed to any unauthorised persons. Never use a unit that is not in apparently good condition.
- 6 - TRACTEL S.A. declines any responsibility for the consequences of dismantling or latering the unit by any unauthorised person..
- 7 - DYNAFOR® LLX-TR units must not be used in explosive atmospheres.
- 8 - DYNAFOR® LLX-TR must not be used in systems for lifting people without having previously checked the compatibility of the operating coefficients and having completed an analysis of the specific risks. Appropriate measures should be taken to eliminate the risks.
- 9 - Any operating of the DYNAFOR® LLX-TR complementary equipment relaying the signals to another operating system should be preceded by the user or the assembler of the system, of an analysis of the specific risks of the operating functions. Appropriate measures should be taken to eliminate the risks.