

## DYNAFOR EXPERT WIRELESS DIGITAL DYNAMOMETERS



The dynafor™ Expert is a wireless digital dynamometer, used in high precision applications. With its unique design, it allows to reach extreme precision.

Based on the principle of strain gauge extension measurement, the sensor generates an electrical signal which is processed and analyzed by a built-in microprocessor, which transmits the information to a wireless accessory.

Equipped with radio 2.4 GHz (RF) and Bluetooth (BLE) chipsets available all time, the dynafor™ Expert provides a wireless range of:

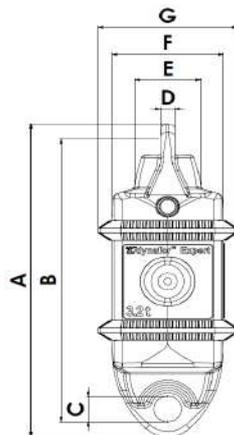
- 400 m to Tractel® dynafor™ HHD, large displays AL128 and software accessories
- 30 m to any smartphone equipped with our free dynafor™ app on iOS or Android

### APPLICATIONS

- Overhead Weighing
- Force measurement testing
- Towing applications
- Safety and lifting applications
- Load balancing
- Research & Development Projects
- Load Monitoring on lifting equipments

### ACCESSORIES

- dynafor™ HHD for a remote display with extended functionalities
- Wireless dynafor™ AL128 for a high visibility display
- Loader Software to unload data saved into the HHD
- Monitoring Software, in use with HHD for real-time monitoring
- dynafor™ application available on any Android and iOS device
- dynafor™ DMU for threshold management
- Standard bow and clevis shackles



Model No.	Expert 0.5t	Expert 1t	Expert 2T	Expert 3.2t	Expert 5t	Expert 6.3t	Expert 10t	
<b>Maximum Capacity WLL</b>	<b>Tonne</b>	0.5	1	2	3.2	5	6.3	10
<b>Test Load</b>	<b>Tonne</b>	0.75	1.5	3	4.8	7.5	9.6	15
<b>Safety Coefficient</b>		Minimum 4						
<b>Precision</b>	<b>%</b>	0.1% at 21° C full scale (IP 67= 0.2%)						
	<b>kg</b>	0.5	1	2	3.2	5	6.3	10
<b>Resolution</b>	<b>kg</b>	0.1	0.2	0.5	0.5	1	1	2
<b>Max. Display</b>		110% of WLL						
<b>Conversion Factor</b>		1 kg = 0.98083 daN = 2.20462 lbs						
<b>Autonomy</b>		From 300 to 1000h depending on usage						
<b>Batteries</b>		3 x AA						
<b>Tool Weight</b>	<b>kg</b>		2.3			3.35	6.45	
<b>RF Technology</b>		2.4 GHz proprietary, range up to 400 m (open field)						
<b>Bluetooth Technology</b>		BLE 4.0 range up to 30 m (open field)						
<b>Operating Temperature</b>		-20°C to +50°C						
<b>Sample Rate</b>		4 Hz, up to 32 Hz in "Peak Hold"						
<b>IP Protection</b>		I.P 64 (I.P 67 in option)						
<b>Sensor Head Material</b>		Steel						
<b>Sensor Body Material</b>		Aluminium						Steel
<b>Dimensions mm</b>	<b>A</b>	248	248	248	248	290	290	341
	<b>B</b>	224	224	224	224	254	254	296
	<b>C</b>	Ø20	Ø20	Ø20	Ø20	Ø28	Ø28	Ø40
	<b>D</b>	10	10	10	10	16	16	20
	<b>E</b>	24	24	24	24	35	35	54
	<b>F</b>	80	80	80	80	80	80	80
	<b>G</b>	100	100	100	100	100	100	100

## DYNAFOR™ HHD WIRELESS HANDHELD DISPLAY



The dynafor™ HHD is an universal and ergonomic wireless handheld display, used in combination with our Tractel® products.

Equipped with radio 2.4 GHz (RF) chipset, the dynafor™ HHD provides a wireless connection with Tractel® dynafor™ Pro, Expert & Transmitter WL. Up to 4 loadcells can be connected simultaneously, with a range up to 400 m.

The dynafor™ HHD is the perfect professional tool. With its ergonomic design and intuitive use, the dynafor™ HHD is the best remote display available in the market.

From basic to advanced features, the dynafor™ HHD provides a complete professional solution for every need:

### Basic & necessary features:

- On/ Off
- Tare (Gross/Net)
- Units change (kN/ daN / lbs / t / ton (US) / kg)
- Peak hold mode

### Advanced features:

- Single and multi-sensors reading with sum function
- Up to 5 trip-point setting, with over-limit time recording and incorporated buzzer
- Manual single & sum data recording, up to 100 measures
- Settable filtering and zeroing
- Can be used in combination with dynafor™ DMU and AL128
- Can be connected to a PC and used with our softwares

### Ergonomic features:

- Settable backlight
- Coloured and intuitive interface, available in several settable languages
- Robust protection case provided
- Rechargeable battery



## ACCESSORIES AND REQUIREMENTS

The dynafor™ HHD shall be connected to:

- Tractel® dynamometers dynafor™ Pro and Expert
- dynafor™ Transmitter WL

The dynafor™ HHD can also be connected to a PC in order to:

- Unload and export the data saved in the dynafor™ HHD with our Loader software

- Use the Monitoring Software for a real time-monitoring and a connection up to 8 loadcells

The smartphone Tractel® dynafor™ application can be used simultaneously with the dynafor™ HHD.



Model No.	HHD		Protection Case
<b>Number of sensors inputs</b>	From 1 to 4 sensors (single, multiple and sum reading)		
<b>Digits height</b>	<b>mm</b>	13 mm on single reading	
<b>RF Technology</b>	2,4 GHz proprietary, range up to 400 m (open field)		
<b>Conversion factor</b>	1 kg = 0,98083 daN = 2,20462 lbs		
<b>Power supply</b>	Integrated rechargeable battery 3.7V		
<b>Weight</b>	<b>kg</b>	0.45	
<b>Operating Temperature</b>	-20°C to +50°C		
<b>IP Protection</b>	IP65		
<b>Material</b>	<b>ABS V0</b>		<b>Plastic</b>
<b>Dimensions</b>	<b>Length (mm)</b>	149.3	152.5
	<b>Width (mm)</b>	98.3	105
	<b>Depth (mm)</b>	26.6	40

**Model HHD - with Dyno** (if ordered with Dynamometers)

**Model HHD - Separate** (if ordered without Dynamometers)