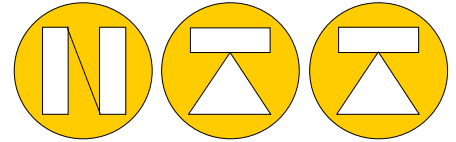
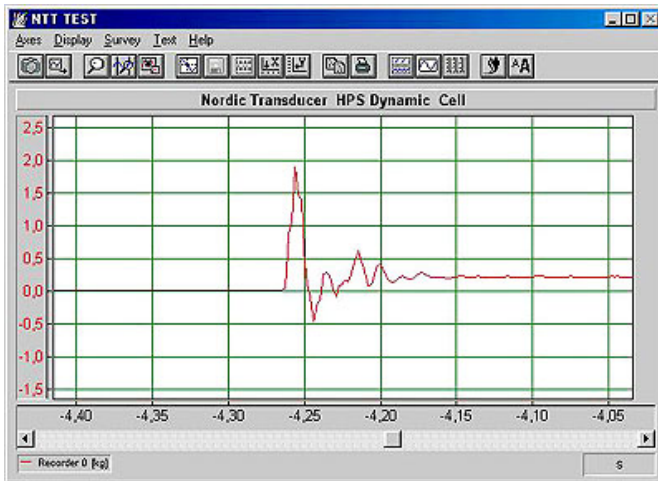


HPS DYNAMIC Load Cell



NORDIC TRANSDUCER



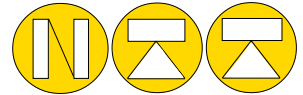
HPS IP66/68

The HPS is a unique fully welded stainless steel single point load cell constructed so that it do have a very fast response compared with other load cells, that's why this HPS is unique for utilization in jobs like check-weighing, belt scales & multi-head weighing machines.

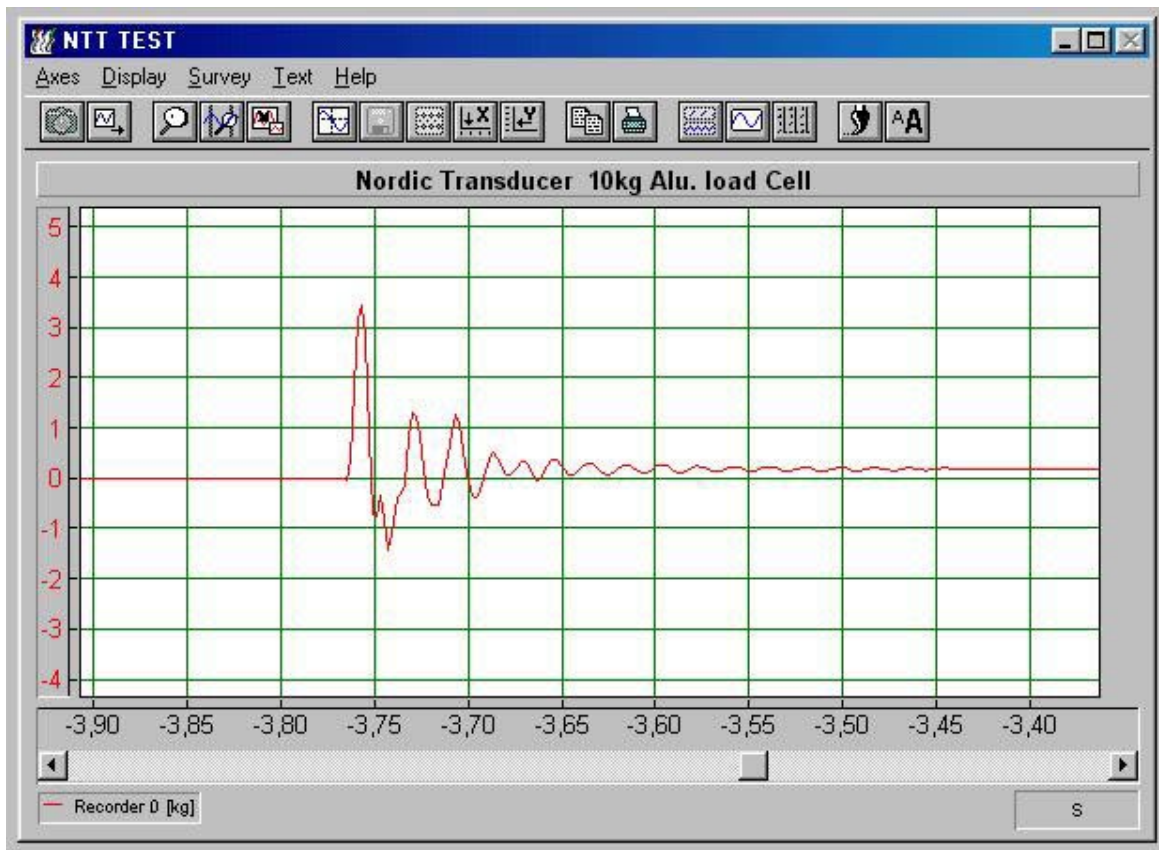
SPECIFICATIONS HPS-C3:

NOMINAL LOAD in kg	6 - 12 - 30 - 60 kg			
ACCURACY CLASS OIML-R60	C3			
Combined Error	< +/- 0.0200%			
Non Repeatability	< +/- 0.0100%			
Minimum Dead Load output return	< +/- 0.0167%			
Minimum Verification Intervals	$E_{max}/12000$			
Creep Error (30 Minutes)	< +/- 0.0245%			
Linearity & Hysteresis	< +/- 0.020 %S.			
Temp. effect on Min Dead Load	< +/- 0.0058 %S/5 °C			
Temp. effect on sensitivity	< +/- 0.0045 %S/5 °C			
NOMINAL SENSITIVITY +/-0.1%	2mV/Volt			
INPUT RESISTANCE	400 Ohm	DISPLACEMENT N.LOAD	0.24-0.19-0.15-0.22	
OUTPUT RESISTANCE	350 Ohm	NOMINAL TEMP. RANGE	-10/+40 °C	
SUPPLY VOLTAGE N.10V	2 - 15 Volt	SERVICE TEMP. RANGE	-40/+80 °C	
MECHANICAL LIMIT VALUES RELATED TO NOMINAL LOAD		STORAGE TEMP. RANGE	-40/+90 °C	
	a) minimum dead load	0%	PROTECTION CLASS	IP66/68
	b) service load	100%	ECCENTRIC LOAD EFFECT	0.03 % S
	c) max. permissible load	150%	CELL MATERIAL Stainless	DIN 1.4542
	d) breaking load	>300%	CABLE LENGTH	7 meter
	e) max. side load	100%	FIXING SCREWS	
f) max. dynamic load	75%	Diameter	M6	
		Tightening torque	20Nm	

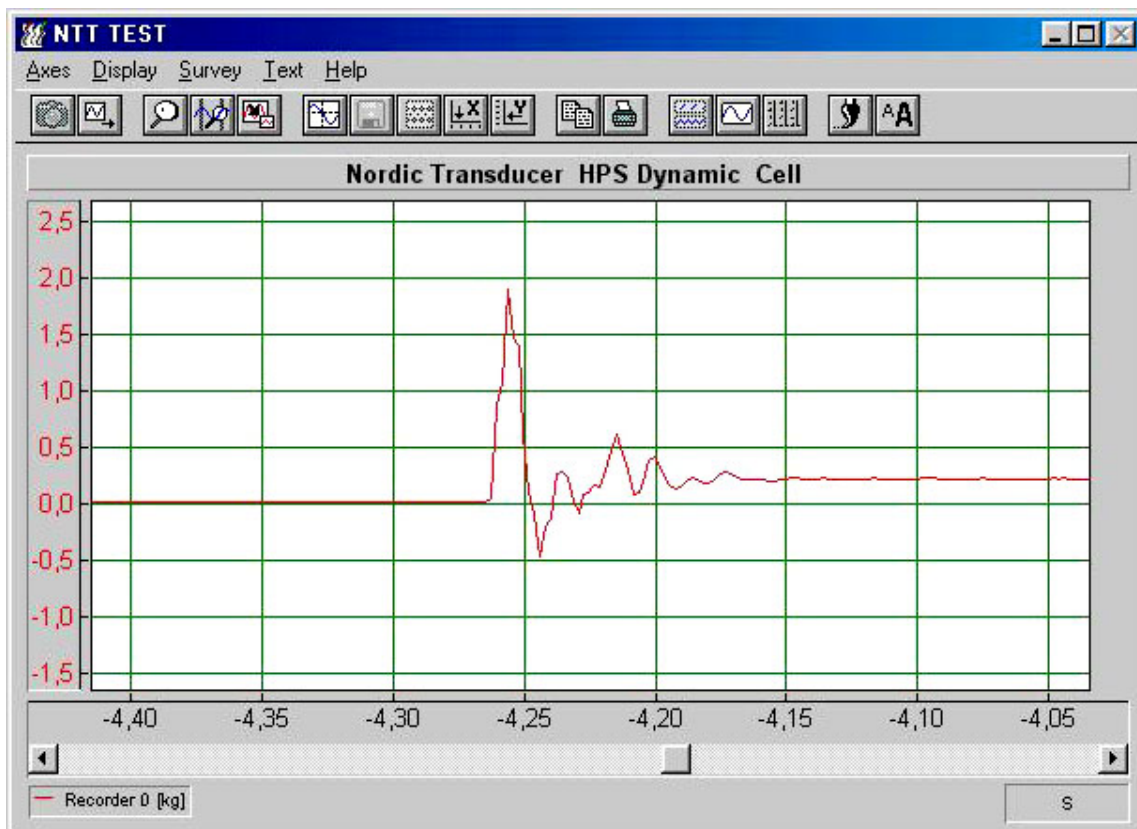
All specifications subject to change without notice



Shock test response on single point load cells:
A 250 gram solid rubber piece is dropped down from a distance on approx. 50mm
unto the platform on a normal 10 kg aluminium cell and a 12 kg HPS Load cell



Here is shown the different on a normal aluminium load and a HPS. As can be seen above the 10 kg alu. cell do ring out for a long time approx. 300 msec. before it's back on track again



Gravity acceleration $g = 9.804537 \text{ m/s}^2$

The HPS is back again within 75 msec. !!! that's why it is superb for dynamic weighing jobs.

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