DECLARATION OF CONFORMITY
with WELMEC 2 paragraph 12

COMPATIBILITY OF MODULES

Ref.: WELMEC 2 (2000)

Non-Automatic Weighing Instrument, single-interval

Certificate of EU Type-Approval N°: TAC: DK0199.436

INDICATOR

A/D (Module 1) Type: MV2

Accuracy class according to EN 45501 and OIML R76:	$Class_{ind}$ (I, II, III or IIII		III		
Maximum number of verification scale intervals (n_{max}):	n_{ind}		6000		
Fraction of maximum permissible error (mpe):	p_1		0.5		
Load cell excitation voltage:	U_{exc}	[Vdc]	5		
Minimum input-voltage per verification scale interval:	Δu_{min}	[µV]	0.83		
Minimum load cell impedance:	R_{Lmin}	[Ω]	87		
Coefficient of temperature of the span error:	Es	[% / 25°C]			0.006
Coefficient of resistance for the wires in the J-box cable:	Sx	[% / Ω]			0.0152
Specific J-box cable-Length to the junction box for load cells:	$(L/A)_{max}$	[m / mm²]			127
Load cell interface:			4-wire (no sense)		
Additive tare, if available:	T^+	[% of Max]	5		
Initial zero setting range:	IZSR	[% of Max]	-2	/	2
Temperature range:	T_{min} / T_{max}	[°C]	-10	/	40
Test report (TR), Test Certificate (TC) or OIML Certificate of Conformity:			DANAK-1913746		

LOAD RECEPTOR

(Module 2) Type:

Construction:			Platform		
Fraction of mpe:	p_2		0.5		
Number of load cells:	N		4		
Reduction ratio of the load transmitting device:	$R=F_M / F_L$		1		
Dead load of load receptor:	DL	[% of Max]	12.98		
Non uniform distribution of the load:	NUD	[% of Max]	20		
Correction factor:	$Q = 1 + (DL + T^+ + IZSR^+ + NUD) / 100$		1.3998		

LOAD CELL

ANALOG (Module 3) Type: LFB-250P

Accuracy class according to OIML R60:	$Class_{LC}$ (A, B, C or D)		C		
Maximum number of load cell intervals:	n_{LC}		3000		
Fraction of mpe:	p_3		0.7		
Rated output (sensitivity):	C	[mV / V]	2.2		
Input resistance of single load cell:	R_{LC}	[Ω]	350		
Minimum load cell verification interval: ($v_{min\%} = 100 / Y$)	$v_{min\%}$	[% of Emax]	0.02		
Rated capacity:	E_{max}	[kg]	125		
Minimum dead load, relative:	$(E_{min} / E_{max}) * 100$	[%]	0		
Temperature range:	T_{min} / T_{max}	[°C]	-10	/	40
Test report (TR) or Test Certificate (TC/OIML) as appropriate:			R60/1991-DK-00.02		

COMPLETE WEIGHING INSTRUMENT

Single-interval

Manufacturer: Detecto Type: 6550KGEU

Accuracy class according to EN 45501 and OIML R76:	$Class_{WI}$ (I, II, III or IIII		III		
Fractions: $p_i = p_1^2 + p_2^2 + p_3^2$:	p_i		1.0		
Maximum capacity:	Max	[kg]	300		
Number of verification scale intervals:	n		3000		
Verification scale interval:	e	[kg]	0.1		
Utilisation ratio of the load cell:	$\alpha = (Max / E_{max}) * (R / N)$		0.60		
Input voltage (from the load cells):	$\Delta_u = C * U_{exc} * \alpha * 1000 / n$	[µV/e]	2.20		
Cross-section of each wire in the J-box cable:	A	[mm²]	0.22		
J-box cable-Length:	L	[m]	5		
Temperature range to be marked on the instrument: Not required	T_{min} / T_{max}	[°C]			
Peripheral Equipment subject to legal control:					

Acceptance criteria for compatibility				Passed, provided no result below is < 0	
$Class_{WI}$	<=	$Class_{ind}$ & $Class_{LC}$	(WELMEC 2: 1)	$Class_{WI}$:	PASSED
pi	<=	1	(R76: 3.5.4.1)	1 - pi =	0.0
n	<=	n_{max} for the class	(R76: 3.2)	n_{max} for the class - n =	7000
n	<=	n_{ind}	(WELMEC 2: 4)	n_{ind} - n =	3000
n	<=	n_{LC}	(R76: 4.12.2)	n_{LC} - n =	0
E_{min}	<=	DL * R / N	(WELMEC 2: 6d)	(DL * R / N) - E_{min} =	9.735
$v_{min} * \sqrt{N} / R$	<=	e	(R76: 4.12.3)	e - (v_{min} * √N / R) =	0.050
or (if v_{min} is not given)				Alternative solutions: ↑ ↓	
$(E_{max} / n_{LC}) * (\sqrt{N} / R)$	<=	e	(WELMEC 2: 7)	e - ((E_{max} / n_{LC}) * (√N/ R)) =	
Δu_{min}	<=	Δu	(WELMEC 2: 8)	$\Delta u - \Delta u_{min}$ =	1.37
R_{Lmin}	<=	R_{LC} / N	(WELMEC 2: 9)	(R_{LC} / N) - R_{Lmin} =	1
L / A	<=	$(L / A)_{max}^{WI}$	(WELMEC 2: 10)	$(L / A)_{max}^{WI}$ - (L / A) =	347
T_{range}	<=	$T_{max} - T_{min}$	(R76: 3.9.2.2)	(T_{max} - T_{min}) - T_{range} =	20
Q * Max * R / N	<=	E_{max}	(R76: 4.12.1)	E_{max} - (Q * Max * R / N) =	20.0

Signature and date:

Conclusion . . . . . PASSED

This is an authentic document made from the program:
"Compatibility of NAWI-modules version 3.0".