DECLARATION OF CONFORMITY
based on WELMEC Guide 2:2009 section 11

COMPATIBILITY OF MODULES

Ref.: OIML R76-1:2006

Non-Automatic Weighing Instrument, multi-range.

Certificate of EU Type-Approval N°: TAC: DK0199.583

INDICATOR A/D (Module 1)	Type:	855			
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} or lower):	n_{ind}			3750	
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]		0.8	
Minimum load cell impedance:	R_{Lmin}	[Ω]		350	
Maximum load cell impedance:	R_{Lmax}	[Ω]		1100	
Number of A/D-channels used:	K			4	
Coefficient of temperature of the span error:	Es	[% / 25°C]			
Coefficient of resistance for the wires in the J-box cable:	Sx	[% / Ω]			
Specific J-box cable-Length to the junction box for load cells:	$(L/A)_{max}$	[m / mm²]	37.62963		
Load cell interface:	4-wire (no sense)				
Additive tare, if available:	T^+	[% of Max]		0	
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-1916732				
LOAD RECEPTOR (Module 2)	Type:	48 X 48 PLATFORM			
Construction:		Platform			
Fraction of mpe:	p_2			0.5	
Number of load cells:	N			4	
Number of load cells per A/D-channel:	N_{ch_min} & N_{ch_max}		1		1
Reduction ratio of the load transmitting device:	$R=F_M / F_L$			1	
Dead load of load receptor:	DL	[% of Max]		20.74	
Non uniform distribution of the load:	NUD	[% of Max]		20	
Correction factor:	$Q = 1 + (DL + T^+ + IZSR^+ + NUD) / 100$			1.4274	
LOAD CELL ANALOG (Module 3)	Type:	LFB-500HMT			
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	
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]		250	
Minimum dead load, relative:	$(E_{min} / E_{max}) * 100$	[%]		0	
Minimum dead load output return: ($DR_{\%} = 50 / Z$)	$DR_{\%}$	[% of Emax]		0.016	
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		**Multi-range**			
Manufacturer: Detecto	Type:	Solace 48 X48			
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]	>>>>>>>>>>>>>>>>>>		450
Maximum capacity for each partial weighing range:	Max_1 / Max_2	[kg]	300		450
Number of verification scale intervals for each weighing range:	n_1 / n_2		3000		2250
Verification scale interval for each weighing range:	e_1 / e_2	[kg]	0.1		0.2
Utilisation ratio of the load cell:	$\alpha = (Max_i / E_{max}) * (R / N)$		0.30		0.45
Input voltage (from the load cell s):	$\Delta_u = C * U_{exc} * \alpha * 1000 / n$	[µV / e]	1.00		2.00
Cross-section of each wire in the J-box cable:	A	[mm²]	>>>>>>>>>>>>>>>>>>		0.081
J-box cable-Length to the junction box for load cells:	L	[m]	>>>>>>>>>>>>>>>>>>		3
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		
$Class_{WI}$	<=	$Class_{ind}$ & $Class_{LC}$	(R76: F.4 (1))	$Class_{WI}$:	PASSED	
p_i	<=	1	(R76: 3.10.2.1)	$1 - p_i$ =	>>>>>>>>>>>>>>>>>>	0.0
n_i	<=	n_{max} for the class	(R76: 3.2)	n_{max} for the class - n_i =	7000	7750
n_i	<=	n_{ind}	(R76: F.4 (4))	$n_{ind} - n_i$ =	750	1500
n_i	<=	n_{LC}	(R76: F.2.6)	$n_{LC} - n_i$ =	0	750
E_{min}	<=	DL * R / N	(R76: F.2.5)	(DL * R / N) - E_{min} =	23.3325	<<<<<<<<<<<<<<<<<
$v_{min} * \sqrt{N} / R$	<=	e_i	(R76: F.2.7)	$e_i - (v_{min} * \sqrt{N} / R)$ =	0.000	0.100
or (if v_{min} is not given)				Alternative solutions: ↑ ↓		
$(E_{max} / n_{LC}) * (\sqrt{N} / R)$	<=	e_i	(R76: F.4 (7))	$e_i - ((E_{max} / n_{LC}) * (\sqrt{N} / R))$ =		
Δu_{min}	<=	Δu	(R76: F.4 (8))	$\Delta u - \Delta u_{min}$ =	0.20	1.20
R_{Lmin}	<=	R_{LC} / N	(R76: F.4 (9))	$(R_{LC} / N_{ch_max}) - R_{Lmin}$ =	>>>>>>>>>>>>>>>>>>	0
R_{lmax}	>=	R_{LC} / N	(R76: F.4 (9))	$R_{Lmax} - (R_{LC} / N_{ch_min})$ =	>>>>>>>>>>>>>>>>>>	750
L / A	<=	$(L / A)_{max}^{WI}$	(R76: F.4 (10))	$(L / A)_{max}^{WI} - (L / A)$ =	>>>>>>>>	0
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: F.2.4)	E_{max} - (Q * Max * R / N) =	>>>>>>>>>>>>>>>>>>	89.4
$DR_{\%}$	<=	$125 * e_1$ / Max	(R76: F.4 (6c))	$(125 * e_1 / Max) - DR_{\%}$ =	0.012	<<<<<<<<<<<<<<<<<
or (if DR% is not given)				Alternative solutions: ↑ ↓		
0.4 * Max / e_1	<=	n_{Lc}	(R76: F.4 (6c))	$n_{LC} - (0.4 * Max / e_1)$ =		

Signature and date:

Conclusion . . . . . ***PASSED***

This is an authentic document made from the program:
"Compatibility of NAWI-modules version 4.0".