

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)

Accuracy class according to EN 45501 and OIML R76:
Maximum number of verification scale intervals (n_{max} or lower):
Fraction of maximum permissible error (mpe):
Load cell excitation voltage:
Minimum input-voltage per verification scale interval:
Minimum load cell impedance:
Maximum load cell impedance:
Number of A/D-channels used:
Coefficient of temperature of the span error:
Coefficient of resistance for the wires in the J-box cable:
Specific J-box cable-Length to the junction box for load cells:
Load cell interface:
Additive tare, if available:
Initial zero setting range:
Temperature range:

Table with columns: Property, Value, and Range. Includes: Type: 855; Class_{ind} (I, II, III or IIII) III; n_{ind} 3750; p₁ 0.5; U_{exc} [Vdc]: 5; ΔU_{min} [μV]: 0.8; R_{Lmin} [Ω]: 350; R_{Lmax} [Ω]: 1100; K 4; Es [% / 25°C]:; Sx [% / Ω]:; (L/A)_{max} [m / mm²]:; 6-wire (remote sense):; T⁺ [% of Max]: 0; IZSR [% of Max]: -2 / 2; T_{min} / T_{max} [°C]: -10 / 40

LOAD RECEPTOR

(Module 2)

Construction:
Fraction of mpe:
Number of load cells:
Number of load cells per A/D-channel:
Reduction ratio of the load transmitting device:
Dead load of load receptor:
Non uniform distribution of the load:
Correction factor:

Table with columns: Property, Value, and Range. Includes: Type:; Platform:; p₂ 0.5; N 4; N_{ch min} & N_{ch max} 1 1; R = F_M / F_L: 1; DL [% of Max]: 2; NUD [% of Max]: 20; Q = 1 + (DL + T⁺ + IZSR⁺ + NUD) / 100 1.24

LOAD CELL

ANALOG (Module 3)

Accuracy class according to OIML R60:
Maximum number of load cell intervals:
Fraction of mpe:
Rated output (sensitivity):
Input resistance of single load cell:
Minimum load cell verification interval: (V_{min}% = 100 / Y)
Rated capacity:
Minimum dead load, relative:
Minimum dead load output return: (DR% = 50 / Z)
Temperature range:
Test report (TR) or Test Certificate (TC/OIML) as appropriate:

Table with columns: Property, Value, and Range. Includes: Type: FP-125KG; Class_{LC} (A, B, C or D) C; n_{LC} 3000; p₃ 0.7; C [mV / V]: 1.8; R_{LC} [Ω]: 1000; V_{min}% [% of E_{max}]: 0.03333; E_{max} [kg]: 125; (E_{min} / E_{max}) * 100 [%]: 1; DR% [% of E_{max}]: 0.008333; T_{min} / T_{max} [°C]: -10 / 40; R602000-GB1-15.03:

COMPLETE WEIGHING INSTRUMENT

Multi-range

Manufacturer: Detecto
Accuracy class according to EN 45501 and OIML R76:
Fractions: p₁ = p₁² + p₂² + p₃²:
Maximum capacity:
Maximum capacity for each partial weighing range:
Number of verification scale intervals for each weighing range:
Verification scale interval for each weighing range:
Utilisation ratio of the load cell:
Input voltage (from the load cells):
Cross-section of each wire in the J-box cable:
J-box cable-Length to the junction box for load cells:
Temperature range to be marked on the instrument:
Peripheral Equipment subject to legal control:

Table with columns: Property, Value, and Range. Includes: Type:; Class_{WI} (I, II, III or IIII) III; p₁ 1.0; Max [kg]: 400; Max₁ / Max₂ [kg]: 300 / 400; n₁ / n₂: 3000 / 2000; α (Max₁ / E_{max}) * (R / N): 0.1 / 0.2; Δu = C * U_{exc} * α * 1000 / n [μV / e]: 0.60 / 0.80; e₁ / e₂ [kg]: 1.80 / 3.60; A [mm²]:; L [m]:; T_{min} / T_{max} [°C]:; Not required

Large table with columns: Property, Reference, and Value. Divided into 'Acceptance criteria for compatibility' and 'Passed, provided no result below is < 0'. Includes: Class_{WI} <= Class_{ind} & Class_{LC} (R76: F.4 (1)) PASSED; p₁ <= 1 (R76: 3.10.2.1) 0.0; n_i <= n_{max} for the class (R76: 3.2) 8000; n_i <= n_{ind} (R76: F.4 (4)) 1750; n_i <= n_{LC} (R76: F.2.6) 1000; E_{min} <= DL * R / N (R76: F.2.5) 0.75; V_{min} - √N / R <= e₁ (R76: F.2.7) 0.17; ΔU_{min} <= Δu (R76: F.4 (8)) 2.80; R_{Lmin} <= R_{LC} / N (R76: F.4 (9)) 650; R_{Lmax} >= R_{LC} / N (R76: F.4 (9)) 100; L / A <= (L / A)_{max}^{WI} (R76: F.4 (10)) Not applicable; T_{range} <= T_{max} - T_{min} (R76: 3.9.2.2) 20; Q * Max * R / N <= E_{max} (R76: F.2.4) 1.0; DR% <= 125 * e₁ / Max (R76: F.4 (6c)) 0.023; 0.4 * Max / e₁ <= n_{LC} (R76: F.4 (6c))

Signature and date:

Conclusion PASSED

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