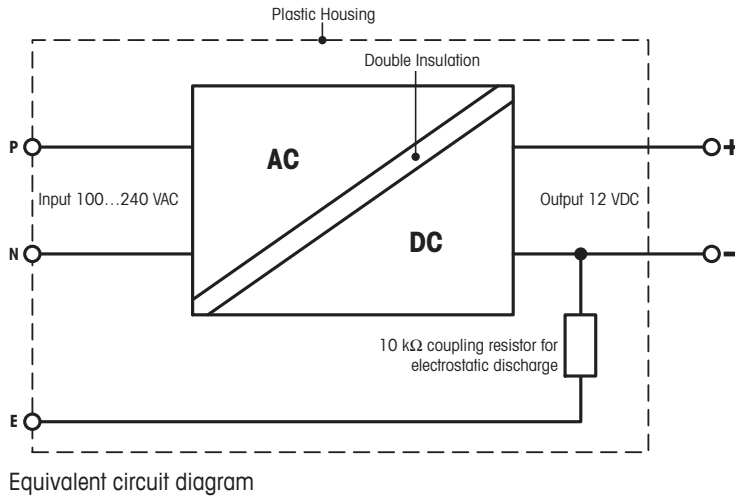


Because the balance are sensitive to static charges a leakage resistor, typically 10 k Ω , is connected between the earth connector and the power supply output terminals. The arrangement is shown in the equivalent circuit diagram. This resistor is not part of the electrical safety arrangement and does not require testing at regular intervals.



7.3 Model-specific data

		XP26	XP26DR
Limit values			
Maximum capacity		22 g	22 g
Readability		0.001 mg	0.01 mg
Tare range (from...to)		0 ... 22 g	0 ... 22 g
Maximum capacity, fine range		–	5.1 g
Readability, fine range		–	0.002 mg
Repeatability (at nominal load)	sd	0.0025 mg (20 g)	0.008 mg (20 g)
Repeatability (at low load)	sd	0.0015 mg (1 g)	0.005 mg (1 g)
Repeatability, fine range (at low load)	sd	–	0.002 mg (1 g)
Linearity deviation		0.004 mg	0.01 mg
Eccentricity deviation (test load)		0.02 mg (10 g)	0.025 mg (10 g)
Sensitivity offset (test weight) ²⁾		0.08 mg (20 g)	0.1 mg (20 g)
Sensitivity temperature drift		0.0001%/°C	0.0001%/°C
Sensitivity stability		0.0001%/a	0.0001%/a
Typical values			
Repeatability	sd	0.0007 mg	0.004 mg
Repeatability, fine range	sd	–	0.0012 mg
Linearity deviation		0.003 mg	0.0048 mg
Eccentric deviation (test load)		0.006 mg (10 g)	0.008 mg (10 g)
Sensitivity offset (test load) ²⁾		0.04 mg (20 g)	0.048 mg (20 g)
Minimum sample weight (according to USP) ¹⁾		2.1 mg	12 mg
Minimum sample weight (according to USP), fine range ¹⁾		–	3.6 mg
Minimum sample weight (U=1%, k=2) ¹⁾		0.14 mg	0.8 mg
Minimum sample weight (U=1%, k=2), fine range ¹⁾		–	0.24 mg
Settling time		3.5 s	2.5 s
Settling time, fine range		–	3.5 s
Dimensions			
Balance dimensions (WxDxH)		263x487x322 mm	263x487x322 mm
Weighing pan dimensions		40x40 mm (WxD)	40x40 mm (WxD)
Typical uncertainties and supplementary data			
Repeatability ¹⁾	sd	0.0007mg+0.000004%·Rgr	0.004mg+0.000005%·Rgr
Repeatability, fine range ^{1) 3)}	sd	–	0.0012mg+0.00001%·Rgr

		XP26	XP26DR
Differential linearity deviation	sd	$\sqrt{(0.12\text{pg}\cdot\text{Rnt})}$	$\sqrt{(0.3\text{pg}\cdot\text{Rnt})}$
Differential eccentric load deviation	sd	$0.00003\%\cdot\text{Rnt}$	$0.00004\%\cdot\text{Rnt}$
Sensitivity offset ²⁾	sd	$0.0001\%\cdot\text{Rnt}$	$0.00012\%\cdot\text{Rnt}$
Minimum sample weight (according to USP) ¹⁾		$2.1\text{mg}+0.012\%\cdot\text{Rgr}$	$12\text{mg}+0.015\%\cdot\text{Rgr}$
Minimum sample weight (according to USP), fine range ¹⁾		–	$3.6\text{mg}+0.03\%\cdot\text{Rgr}$
Minimum sample weight (U=1%, k=2) ¹⁾		$0.14\text{mg}+0.0008\%\cdot\text{Rgr}$	$0.8\text{mg}+0.001\%\cdot\text{Rgr}$
Minimum sample weight (U=1%, k=2), fine range ¹⁾		–	$0.24\text{mg}+0.002\%\cdot\text{Rgr}$
Weighing time		18 s	14 s
Weighing time, fine range		–	18 s
Interface update rate		23 /s	23 /s
Weight of balance		11.5 kg	11.5 kg
Number of built-in reference weights		2	2
Weights for routine testing			
OIML CarePac		20 g F1, 1 g E2	20 g F1, 1 g E2
	Weights	#11123006	#11123006
ASTM CarePac		20 g 1, 1 g 1	20 g 1, 1 g 1
	Weights	#11123106	#11123106

sd = Standard deviation

Rnt = Net weight (sample weight)

Rgr = Gross weight

a = Year (annum)

¹⁾ Valid for compact objects

²⁾ After adjustment with built-in reference weight

³⁾ On DeltaRange models: fine range starts at zero gross load

		XP56	XP56DR
Limit values			
Maximum capacity		52 g	52 g
Readability		0.001 mg	0.01 mg
Tare range (from...to)		0 ... 52 g	0 ... 52 g
Maximum capacity, fine range		–	11 g
Readability, fine range		–	0.002 mg
Repeatability (at nominal load)	sd	0.006 mg (50 g)	0.014 mg (50 g)
Repeatability (at low load)	sd	0.0015 mg (1 g)	0.006 mg (1 g)
Repeatability, fine range (at low load)	sd	–	0.002 mg (1 g)
Linearity deviation		0.2 mg	0.03 mg
Eccentricity deviation (test load)		0.03 mg (20 g)	0.035 mg (20 g)
Sensitivity offset (test weight) ²⁾		0.125 mg (50 g)	0.15 mg (50 g)
Sensitivity temperature drift		0.0001%/°C	0.0001%/°C
Sensitivity stability		0.0001%/a	0.0001%/a
Typical values			
Repeatability	sd	0.0007 mg	0.004 mg
Repeatability, fine range	sd	–	0.0012 mg
Linearity deviation		0.01 mg	0.015 mg
Eccentric deviation (test load)		0.012 mg (20 g)	0.016 mg (20 g)
Sensitivity offset (test load) ²⁾		0.06 mg (50 g)	0.08 mg (50 g)
Minimum sample weight (according to USP) ¹⁾		2.1 mg	12 mg
Minimum sample weight (according to USP), fine range ¹⁾		–	3.6 mg
Minimum sample weight (U=1%, k=2) ¹⁾		0.14 mg	0.8 mg
Minimum sample weight (U=1%, k=2), fine range ¹⁾		–	0.24 mg
Settling time		3.5 s	2.5 s
Settling time, fine range		–	3.5 s
Dimensions			
Balance dimensions (WxDxH)		263x487x322 mm	263x487x322 mm
Weighing pan dimensions		40x40 mm (WxD)	40x40 mm (WxD)
Typical uncertainties and supplementary data			