

A.2: Instrument Data and Operating Conditions

Environmental conditions (EN 61010)	indoor use only
Ambient temperature	15 °C to 35 °C (59 °F to 95 °F)
Air humidity	10 % to 90 % relative humidity, non-condensing
Altitude	max. 3000 m (9800 ft)
Pressure range	0...50 °C (32... 122 °F): max. 10 bar (145 psi) absolute ^a above 50 °C (122 °F): max. 5 bar (72.5 psi) absolute
Pressure drying air	max. 0.1 bar (1.45 psi) relative
Pollution degree	2
Overvoltage category	II
Data memory	<ul style="list-style-type: none"> • audit trail entries: up to 50,000 • measurement data: up to 10,000 (with camera image) • check results: up to 500 • adjustment results: up to 300 • products: up to 400 • custom quantities: up to 50 • images: up to 50
Display	10.1" TFT WXGA (1280x800 px); PCAP touchscreen
Controls	touchscreen, optional keyboard, mouse, and barcode reader
Interfaces	4 x USB 2.0 (type A) ^b , 1 x USB OTG (Micro-A), 1 x RS-232, 1 x Ethernet (100 Mbit), 1 x CAN Bus
RS-232C printer settings	Baud rate: 9600; Parity: none; Stop bit: 1; Data bits: 8
Voltage	100 to 240 V~, 50/60 Hz, fluctuation ±10 %
Power consumption	190 VA (incl. Xsample and external measuring modules) ^c
Power inlet	according to IEC/EN 60320-1/C14, protection class I
Fuses	ceramic tube fuses 5x20 mm; IEC60127-2; AC 250 V; T 5 AH
Dimensions (L x W x H)	526 mm x 347 mm x 230 mm (20.7 in x 13.7 in x 9 in)
Weight	22.04 kg (48.6 lbs)

^a For the measuring cell together with the injection adapters DMA/CarboQC, mat. no. 159537, in the specified temperature range.

^b USB memory devices have to be formatted with FAT32 file system.

^c In the stand-alone configuration (no Xsample or external measuring modules) the power consumption will not exceed 85 VA.

A.3: Wetted Parts and Housing Surface Materials

The following materials are in contact with the samples and cleaning agents:

Instrument

Material	Part
Borosilicate glass	measuring cell
PTFE (polytetrafluoroethylene)	injection adapter

Standard accessories

Material	Part
HDPE (high-density polyethylene)	waste vessel
Polypropylene / polyethylene	syringe 2 mL Luer
PTFE (polytetrafluoroethylene)	injection adapters, male Luer plug, adapter Luer cone, filling and waste hose
Silicone	hose
Tefzel	adapter UNF 1/4" Luer male, adapter Luer 1/4" UNF

Instrument housing surface materials

front, top, sides, bottom cover	Durotect PUR Plus 2K texture paint
back	aluminum
extension slot cover plate	ABS (acrylonitrile butadiene styrene) + PC (polycarbonate)

Appendix B: Declarations of Conformity

EU Declaration of Conformity

(original)



The Manufacturer **Anton Paar GmbH**, Anton-Paar-Str. 20, A-8054 Graz, Austria – Europe hereby declares that the product listed below

Product designation: **LABORATORY DENSITY METER DMA 4101
LABORATORY DENSITY METER DMA 4101 CK
LABORATORY DENSITY METER DMA 4501
LABORATORY DENSITY METER DMA 4501 CK
LABORATORY DENSITY METER DMA 5001
LABORATORY DENSITY METER DMA 5001 CK
LABORATORY DENSITY METER DMA 4501 DIET**

Model: **DMA 4101, DMA 4501, DMA 5001**

Material number: **192804, 222121, 222122, 222124, 222123, 222125, 245931**

is in conformity with the relevant European Union harmonisation legislation. This declaration of conformity is issued under the sole responsibility of the manufacturer.

Electromagnetic Compatibility (2014/30/EU, OJ L 96/79 of 29.3.2014)

Applied standards:

- EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements

The product is classified as a class B equipment and is intended for the use in industrial area.

Low Voltage Directive (2014/35/EU, OJ L 96/357 of 29.3.2014)

Applied standards:

- EN 61010-1:2010 + A1:2019 + A1:2019/AC:2019 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements
- EN 61010-2-010:2014 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of Materials

RoHS Directive (2011/65/EU, OJ L 174/88 of 1.7.2011)

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