

KERN DBS 60-3



Moisture analyser with high-quality single-cell weighing system for outstanding stability, reliability and response speed



Category

Brand	KERN
Product category	Laboratory balance
Product group	Moisture analyser
Product family	DBS

Measuring System

Reproducibility weight of sample 2 g	0,15%
Weighing system	Single-Cell
Weighing capacity [Max]	60 g
Readability [d]	0,001 g
Reproducibility	0,001 g
Linearity	± 0,003 g
Resolution	60.000
Tare range	60 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	50 g (F1)
Possible calibration points	50 g
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,002 g
Temperature increment	1 °C
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Construction type of the scale	Single-range balance

Units	g % Humidity % Dry mass % ATRO
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Temperature [Min] (°C)	50 °C
Temperature [Max] (°C)	200 °C

Reproducibility weight of sample 10 g	0,02%
Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg
Sample - Moisture content	0,1% - 100%
Sample - Dry content	100% - 0,1%
Default unit	g
Temperature calibration points	100 °C; 180 °C
Readability moisture [d] (%)	0,01%

Display

Display type	graphic
Display backlight	✓
Display digit height - smallest digit	5 mm
Display digit height	15 mm

Construction

Dimensions completely mounted (W×D×H)	204×336×167 mm
Dimensions weighing surface (Ø)	95 mm
Dimensions weighing surface	95 mm
Material housing	cast aluminium, plastic
Material weighing plate	stainless steel
Material display housing	cast aluminium
Level indicator	✓
Levelling feet adjustable	✓
Heat generation capacity (W)	400

Functions

Standby function	✓
Drying modes	Standard drying Rapid drying Gentle drying Drying in levels
Memory - number of drying programs	10
Switch-off criteria	time controlled automatic manual
Memory function	✓
Memory - number of results	100
Memory - number of sample (descriptions)	99
Tare function	manual (multi)
Number of keys for operation	11

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Interface

Interfaces	RS-232 standard USB-Device
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Power Supply

Supplied power supply	Power supply unit
Power supply type	Built-in power supply
Plug-in power supply / adapter for countries - included with the delivery	EURO
Plug-in power supply / adapter for countries - optional	UK CH
Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	220V -240V AC, 50Hz
Power socket for mains adapter	Power supply cable

Environmental conditions

Ambient temperature [Min]	5 °C
Ambient temperature [Max]	40 °C
Humidity of environment [Min]	5 %
Humidity of environment [Max]	85 %
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Approval

CE mark	✓
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Services (optional)

Article number for DAkkS calibration	963-127
Article number for factory calibration (temperature)	964-305
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	347×470×373 mm
Shipping method	Parcel service
Net weight approx.	4,6 kg
Gross weight approx.	7 kg
Shipping weight	12,2 kg

Product information

GTIN/EAN number	4045761124226
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

