

KERN DBS 60-3

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



Temperature calibration points	100 °C; 180 °C
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,002 g
Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg
Readability moisture [d] (%)	0,01%

Approval

CE mark	✓
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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
Material display housing	Cast aluminium
Material housing	cast aluminium, plastic
Material weighing plate	stainless steel
Dimensions weighing surface (Ø)	95 mm
Levelling feet adjustable	✓
Heat generation capacity (W)	400

Functions

Number of keys for operation	11
Tare function	manual (multi)
Standby function	✓
Memory function	✓
Memory - number of sample (descriptions)	99
Memory - number of results	100
Memory - number of drying programs	10
Interfaces	RS-232 standard USB-Device
Drying modes	Standard drying Rapid drying Gentle drying Drying in levels
Switch-off criteria	time controlled automatic manual

Category

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

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	60 g
Temperature [Min] (°C)	50 °C
Temperature [Max] (°C)	200 °C
Readability [d]	0,001 g
Resolution	60.000
Linearity	± 0,003 g
Reproducibility	0,001 g
Reproducibility weight of sample 2 g	0,15%
Reproducibility weight of sample 10 g	0,02%
Tare range	60 g
Default unit	g
Units	g % Humidity % Dry mass % ATRO
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Temperature increment	1 °C
Adjustment options	Adjusting with external weight
Recommended adjusting weight	50 g (F1)
Possible calibration points	50 g

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Power Supply

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

Environmental conditions

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

Packing & Shipping

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

Services (optional)

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

Pictograms

STANDARD



OPTION

