KERN **DIS 100-3**

High-precision moisture analyzer for demanding analyses



Date of creation: 25.10.2026

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Moisture analyzer
Product family	DIS

Measuring System	
Weighing system	Force compensation
Weighing capacity [Max]	120 g
USP Minimum weight of sample (k = 2, U = 0.1%)	4 g
Readability [d]	0,001 g
Reproducibility	0,002 g
Linearity	± 0,003 g
Minimum weight [Min] (verifiable)	0,2 g
Resolution	120.000
Adjustment options	Adjusting with external weight
Recommended adjusting weight	100 g (F1)
Possible calibration points	100 g
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,005 g
Reproducibility weight of sample 10 g	0,03%
Temperature increment	1 °C
Construction type of the scale	Single-range balance
Reproducibility weight of sample 2 g	0,1%
Units	g % Humidity % Dry mass %M ATRO Grams/Liter % R (ratio) %D ATRO
Units (if device is conformity assessed)	g
Temperature [Min] (°C)	30 °C
Temperature [Max] (°C)	175 °C
Readability moisture [d] (%)	0,001%
Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg
Default unit	g
Temperature calibration points	100 °C;175 °C
Warm-up time	120 min
Possible moisture content of the sample	0,01% - 100%
Possible dry content of the sample	100% - 0,01%

Display	
Display type	LCD graphic
Display backlight	✓
Display screen size	132×38 mm
Display digit height - smallest digit	5 mm
Display digit height	15 mm
Languages of the user interface	English

Construction	
Dimensions completely mounted (W×D×H)	211×342×187 mm
Dimensions weighing surface (Ø)	95 mm
Dimensions weighing surface	95 mm
Material housing	ABS plastic
Material weighing plate	aluminium
Material display housing	plastic
Material load cell(s)	aluminium
Material substructure	plastic
Level indicator	✓
Levelling feet adjustable	✓
Heat generation capacity (W)	415
Cable length	1,8 m

Functions	
Standby function	✓
Capacity - Display	✓

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Auto-off interval(s) in mains power mode	1 min - 99 min
Tare function	manual (multi)
Underfloor weighing	None
Memory function	✓
Memory - number of drying programs	40
Memory - number of results	1.000
Memory - number of sample (descriptions)	1.000
Number of keys for operation	24
Tolerance weighing - type of signal	visual
Drying modes	Standard drying Rapid drying Gentle drying Drying in levels
Switch-off criteria	time controlled automatic manual

Interface

Interfaces	RS-232 standard USB-Device

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]	230 V AC, 50 Hz
Power supply cable removable	removable
Input voltage device / power [Max]	230 V AC, 50 Hz
Power socket for mains adapter	Power supply cable

Environmental conditions

Ambient temperature [Min]	15 °C
Ambient temperature [Max]	30 °C
Humity of environment [Min]	25 %
Humity of environment [Max]	85 %
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

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)	325×390×285 mm
Shipping method	Parcel service
Net weight approx.	5,0 kg
Gross weight approx.	5,0 kg
Shipping weight	7,2 kg
Shipping volume weight	7,2 kg

Product information

GTIN/EAN number	4045761492981
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

