KERN **DIS 50-4HT**

High-precision moisture analyser with heating temperature of 250 °C

Date of creation: 15.11.2026

Category

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

Measuring System

Weighing system	Force compensation
Weighing capacity [Max]	50 g
USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Readability [d]	0,0001 g
Reproducibility	0,0002 g
Linearity	± 0,0003 g
Minimum weight [Min] (verifiable)	0,2 g
Resolution	500.000
Adjustment options	Adjusting with external weight
Stabilization time	4 s
Eccentric loading at 1/3 [Max]	0,0005 g
Reproducibility weight of sample 10 g	0,02%
Temperature increment	1 °C
Construction type of the scale	Single-range balance
Reproducibility weight of sample 2 g	0,05%
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)	250 °C
Readability moisture [d] (%)	0,0001%
Maximum creep (15 minutes)	1 mg
Maximum creep (30 minutes)	2 mg
Default unit	g
Temperature calibration points	100 °C;250 °C
Warm-up time	4 h
Possible moisture content of the sample	0,001% - 100%
Possible dry content of the sample	100% - 0,001%

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

Dimension housing (W×D×H)	211×342×187 mm
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 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	✓
Auto-off interval(s) in mains power mode	1 min - 99 min
Tare function	manual (multi)

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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

Approval

CE mark	✓

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.	7 kg
Shipping weight	7,2 kg
Shipping volume weight	7,2 kg

Product information

GTIN/EAN number	4045761503441
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD

OPTION