

# Force Gauges, Dial Tension Gauges and Scales

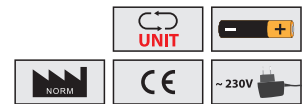
## Electr. Digital Force Gauges





- **robust push/pull force gauge, for simple measurements**

- measurement accuracy is from max. 0.5 % of capacity, data sampling rate 1000 Hz
- large LCD display with backlight
- overload protection 2 % of full scale
- reversible display with automatic direction detection
- with peak hold function, real time or peak hold mode to observe
- automatic power-Off
- incl. standard attachments and extension rod (90 mm long)
- incl. 1x 1.5 V battery (type AAA, art.-no.: 90002), charger and operation manual



standard attachments and extension rod 90 mm



ART NO	 N max.	 N	measuring units	 mm	 CC
270353	100	0.050	N / kgf / lbf / oz	195 x 84 x 35	on request
270354	250	0.100	N / kgf / lbf / oz	195 x 84 x 35	on request
270355	500	0.200	N / kgf / lbf / oz	195 x 84 x 35	on request
270356	1000	0.500	N / kgf / lbf / oz	195 x 84 x 35	on request

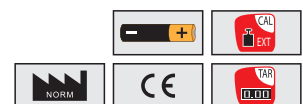
## Kern • Electr. Digital Compact Scales


- **entry-level model in the low cost range, with weigh-in function**

- rugged plastic housing, with large LCD unit, digit height 15 mm
- easy operation by two buttons
- connector for charger
- weigh-in function, by pressing the TARE-button switches over to "0", simplifies mixing
- automatic auto-off after 3 min. without change of load to preserve the battery
- incl. 2x 1.5 V battery (type AA, art.-no.: 90003), with operation manual

### Option

- charger 230 V/AC (art.-no.: 273998)



ART NO	 max. kg	 g	weighing plate-ø mm	 mm
273003	0.5	0.1	150	170 x 240 x 39
273004	0.2	0.01	105	170 x 240 x 39
273006	2.2	1	150	170 x 240 x 39
273008	6	0.1	150	170 x 240 x 39

## Kern • Electr. Digital Precision Scales • IP65 / IP67

- IP65: Dust and jet water proof acc. to DIN 40050 / IEC 60529
- IP67: Water and oil tight (at times) acc. to DIN 40050 / IEC 60529

- rugged metal housing, weighing plate made from stainless steel
- large LCD display, digit height 20 mm
- easy 3-/4-button operation, self-explaining
- operation by battery or main supply, switchable
- automatic power-Off after 3 min. without change of load to preserve the battery
- freely programmable weighing units
- adjusting program (CAL)
- incl. charger 230 V/AC and dust cover
- incl. operation manual

ART N° 273322 - 273324



IP67

ART N° 273320 + 273321



IP65



ART N°	max. kg	g	reproducibility g	linearity ± g	weighing plate mm	mm	CC
273320	0.5	0.1	0.1	0.2	120 x 150	170 x 150 x 40	on request
273321	5	1	1	2	120 x 150	170 x 150 x 40	on request
273322	5   7.5	0.5   1	0.5   1	1.5   3	252 x 200	285 x 255 x 90	on request
273323	8   15	1   2	1   2	3   6	252 x 200	285 x 255 x 90	on request
273324	16   30	2   5	2   5	6   15	252 x 200	285 x 255 x 90	on request

## Kern • Electr. Digital Compact Scales NEW

- industry quality design, with robust tuning fork weighing system
- with data output RS 232

- rugged metal housing, weighing plate made from stainless steel
- large LCD display, digit height 16,5 mm
- automatic power-Off after 3 min., without change of load to preserve the battery
- PRE-TARE button for manual subtraction of a known container weight
- power supply with 9 V block battery (not included)
- with animal weighing program, strong vibrations are filtered out
- incl. dust cover and operation manual
- Internal automatic adjustment, Automatic adjustment CAL for setting the accuracy using a test weight
- Autom. reference optimization
- Capacity display

### Options

- RS-232 / Bluetooth® adapter for connecting Bluetooth® capable devices, art.-no.: 273063-1
- RS-232 / WLAN adapter for wireless connection to network and WLAN-compatible devices, art.-no.: 273063-2



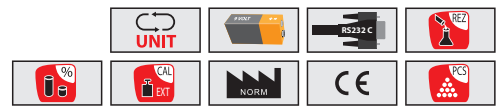
ART N°	max. kg	g	verification value [e] g	minimum weight [min] g	linearity ± g	weighing plate mm	mm	LCD unit	CC
273063	0.62	0.001	—	—	0.004	∅ 140	202 x 293 x 266	202 x 293 x 266	on request
273064	3.2	0.01	—	—	0.02	190 x 190	195 x 290 x 90	195 x 290 x 90	on request
273065	12	0.1	—	—	0.2	190 x 190	195 x 290 x 90	195 x 290 x 90	on request
273067	0.62	0.001	0.01	0.02	0.004	∅ 140	202 x 293 x 266	202 x 293 x 266	on request
273068	3.2	0.01	0.1	0.5	0.02	190 x 190	195 x 290 x 90	195 x 290 x 90	on request
273069	12	0.1	1	5	0.2	190 x 190	195 x 290 x 90	195 x 290 x 90	on request

## Kern • Electr. Digital Compact Scales

- industry quality design, with two LCD-displays
- with data output RS 232 C
- industry scale with rugged metal housing, stainless steel weighing plate
- with large LCD display, with backlight, digit height 25 mm
- automatic power-Off after 3 min., without change of load to preserve the battery
- PRE-TARE button for manual subtraction of a known container weight
- power supply with 9 V block battery (not included)
- with animal weighing program, strong vibrations are filtered out
- incl. dust cover and operation manual



Backside



ART No	max. kg	g	reproducibility g	linearity ± g	weighing plate mm	mm	CC
273076	12	1	1	3	252 x 228	270 x 345 x 106	on request
273078	24	2	2	6	252 x 228	270 x 345 x 106	on request

## Kern • Electr. Digital Parcel Platform Scale

- cheap parcel and allround scales, for despatch weighing

- rugged metal housing, weighing plate made from stainless steel
- with wall mounting for electr. unit
- large LCD display, digit height 25 mm
- weighing units in kg or lb
- display unit placed anywhere by flexible spiral cable (approx. 2 m)
- easy 4-button operation, self-explaining
- automatic power-Off after 3 min., without change of load to preserve the battery, permissible temperature +10 °C ~ +35 °C
- with animal weighing program
- weigh-in function, by pressing TARE-button switches over to "0"
- adjusting programme (CAL) means for adjusting the precision test weights, (is not included)
- mains or battery operation possible (6x 1.5 V battery, type AA, art.-no.: 90003, batteries are not included)
- incl. charger 230 V/AC, with operation manual

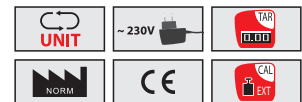


### Option

- stand, art.-no.: 273558 (stand only)



art.-no.: 273558, stand only



ART No	max. kg	g	reproducibility g	linearity ± g	weighing plate mm	mm	LCD unit	CC
273302	35	10	10	20	310 x 305 x 55	210 x 110 x 45	on request	
273303	60	20	20	40	310 x 305 x 55	210 x 110 x 45	on request	
273305	150	50	50	100	310 x 305 x 55	210 x 110 x 45	on request	
273308	300	100	100	200	310 x 305 x 55	210 x 110 x 45	on request	

## Kern • Electr. Digital Parcel Platform Scale • IP65

- multimodel platform scale
- for industrial purpose, with piece-counting, reference quantities selectable
- dual range scale, automatically switches to the next higher weighing range
- dust- and splash water proof acc. to DIN 40050 / IEC 60529

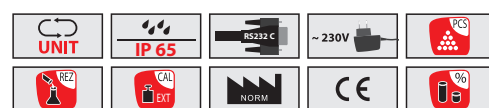
- industry scale with rugged plastic housing, stainless steel weighing plate
- with large LCD display, with backlight, digit height 25 mm
- freely programmable weighing units, e.g. in yarn length g/m, in paper weight g/m<sup>2</sup>, etc.
- display unit (IP 65) placed anywhere by flexible spiral cable (approx. 1.4 m)
- easy 5-button operation, self-explaining, with animal weighing program
- with data output RS 232 C, for data-printer or computer connection
- mains or battery operation possible (1x 9 V battery, type 6LR61, art.-no.: 90006, batteries are not included)
- adjusting program (CAL), piece-counting (PCS), net-total weighing (REZ)
- automatic power-Off after 3 min., permissible temperature +5 °C ~ +35 °C
- incl. charger 230 V/AC, dust cover, with operation manual

### Option

- stand, art.-no.: 273550 (stand only)



art.-no.: 273550, stand only



ART NO	max. kg	g	reproducibility g	linearity ± g	weighing plate mm	LCD unit	CC
273054	15 / 35	5 / 10	5 / 10	15 / 30	318 x 308 x 75	225 x 110 x 45	on request
273057	30 / 60	10 / 20	10 / 20	30 / 60	318 x 308 x 75	225 x 110 x 45	on request
273059	60 / 150	20 / 50	20 / 50	60 / 150	318 x 308 x 75	225 x 110 x 45	on request
273061	150 / 300	50 / 100	50 / 100	150 / 300	522 x 403 x 90	225 x 110 x 45	on request

## Kern • Electr. Digital Industrial Counting Scales

- verifiable
- entry level model into the professional-counting

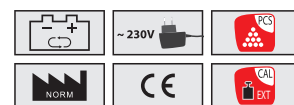
- industry scale with rugged metal housing, stainless steel weighing plate
- with 3 large LCD displays, with backlight, digit height 18 mm
- verifiable weight display, reference weight, total number of pieces
- programmable via keypad: known reference weight / reference quantity
- accurate counting: the autom. reference optimization gradually improves the average value of the piece weighing
- cumulative counter memory: summing up of the same counting parts and total pieces and total weight, counting resolution: 30000 points
- acoustic beep „Fill-to-target“: target quantity and target weight programmable
- weigh-in function, by pressing the TARE-button switches over to "0", simplifies mixing
- permissible temperature -10 °C ~ +40 °C
- standard with charger, internal (please mention the country location of use) and operation manual

### Option

- **verification** or DAKKS calibration certificate by extra charge (with **verification**: location of use with post code required - subsequently not possible)



- high mobility, thanks to battery operation
- with recessed grips



ART NO	max. kg	g	verification value [e] g	minimum weight [min] g	minimum weight g/pc.	weighing plate mm	LCD unit	CC
273022	3	1	1	20	0.1	300 x 225	300 x 330 x 110	on request
273024	15	5	5	100	0.5	300 x 225	300 x 330 x 110	on request
273025	30	10	10	200	1	300 x 225	300 x 330 x 110	on request

## Electr. Digital Hanging Scale

- for mobile use
- for weighing by hand or for hanging up on an angle bracket
- sturdy ABS-plastic housing with a stainless steel hook
- large LCD display with digit height:
  - art.-no. 273087 about 13 mm / art.-no. 273080 – 273082 about 11 mm
- with data hold button, display can be "frozen" for approx. 5 sec., makes reading easier
- On/Off-button, TARE-button: attach an empty vessel/container and place the display to zero
- weighing units: kg, lb and N (Newton)
- automatic power-Off
- permissible temperature +5 °C ~ +35 °C
- art.-no. 273087 only suitable as luggage scale, **not calibratable**
- art.-no. 273080 – 273082 with built-in measuring tape (100 cm)
- art.-no. 273087 incl. 2x 1.5 V battery (type AAA, art.-no.: 90002)
- art.-no. 273080 – 273082 incl. 1x 9 V battery (type 6LR61, art.-no.: 90006),
- art.-no. 273087 not calibratable (simple household scale)
- incl. operation manual

### Option

- DAkkS calibration certificate for art.-no. 273080 – 273082 by extra charge (afterwards not possible)



ART N° 273080 – 273082



ART N° 273087



ART N°	max. kg	g	mm	CC
273080 (Kern)	15	20	90 x 30 x 175	on request
273081 (Kern)	50	50	90 x 30 x 175	on request
273082 (Kern)	50	100	90 x 30 x 175	on request
273087 (Vogel Germany)	30	10	95 x 23 x 195	—

## Kern • Electr. Digital Crane Scale

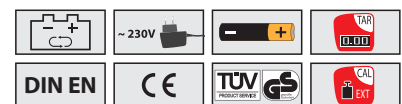
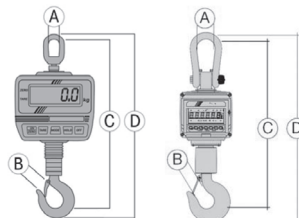
- TÜV approved crane scales acc. to the standards of EN 13155 (loose load receptor) and EN 61010-1 (electr. safety)
- art.-no. 273100 – 273103 prof. device for rough application (industry quality)
- art.-no. 273110 – 273111 compact crane scale (for standard purpose)
- art.-no. 273100 – 273103 self-luminous LED display, digit height 30 mm
- art.-no. 273110 – 273111 LCD display with backlight, digit height 23 mm
- art.-no. 273100 – 273103 incl. remote control, up to 20 m working range
- art.-no. 273110 – 273111 incl. infrared-remote control, up to 2.5 m working range
- with data-hold button, to hold the display value
- art.-no. 273100 – 273103 with adaption to unstable conditions
- hook with saftey lock, made from forged steel, chromed, turnable
- standard with internal battery, incl. charge 230 V/AC
- remote control incl. 2x 1.5 V battery (type AAA, art.-no.: 90002)
- adjusting programme (CAL), weigh-in function, by pressing TARE-button switches over to "0"
- accuracy 0.2 % from [max], permissible temperature 0 °C ~ +40 °C
- incl. operation manual

### Option

- DAkkS calibration certificate by extra charge (afterwards not possible)

ART N° 273110 – 273111

ART N° 273100 – 273103



ART N°	max. kg	g	A	B	C	D	mm	CC
273100	1000	100	80	40	540	610	270 x 175 x 200	on request
273101	3000	500	75	50	540	610	270 x 175 x 200	on request
273102	5000	500	75	50	650	730	300 x 190 x 230	on request
273103	10000	1000	100	60	750	840	300 x 190 x 230	on request
273110	300	100	26	25	358	390	163 x 120 x 159	on request
273111	600	200	26	25	358	390	163 x 120 x 159	on request

## Kern • Electr. Digital Hanging Scale • also with IP65

- with stainless steel snap link and S-hook made from stainless steel
- art.-no. 273083 – 273086 with sturdy ABS plastic housing  
art.-no. 273094 – 273097 with sturdy stainless steel housing, in IP65 design
- art.-no. 273083 – 273086 large LCD display, digit height 12 mm  
art.-no. 273094 – 273097 large LCD display, at front and rear side, digit height 12 mm
- with data hold button, display can be "frozen" for some seconds, adjusting programme (CAL)
- TARE-button: attach an empty vessel/container and place the display to zero
- automatic power-Off after 3 min., without change of load to preserve the battery
- art.-no. 273083 – 273086 incl. 3x 1.5 V battery (type AA, art.-no.: 90003)  
art.-no. 273094 – 273097 incl. 2x 1.5 V battery (type AA, art.-no.: 90003),  
incl. operation manual



ART N°	IP65 water- and coolant proof	max. kg	g	mm	total height incl. hooks mm	CC
273083	X	20	10	80 x 45 x 150	290	on request
273084	X	50	100	80 x 45 x 150	290	on request
273085	X	100	200	80 x 45 x 150	290	on request
273086	X	200	500	80 x 45 x 150	290	on request
273095	✓	50	100	95 x 55 x 175	315	on request
273096	✓	100	200	95 x 55 x 175	315	on request
273097	✓	200	500	95 x 55 x 175	315	on request

## Test Weights

- for checking of measurements and scales
- available as single weights or in sets
- M1-Quality Class, brass made (stainless steel on request), finely turned
- DAkkS calibration certificate (with extra charge)
- in a plastic case with soft insert (wooden case on request)

Other weights  
or set-components  
are available on request!



ART N°	kg	max. ± mg	CC
<b>Quality Class M1</b>			
273266	0.100	5	on request
273268	0.500	25	on request
273269	1.000	50	on request
273270	2.000	100	on request
273271	5.000	250	on request

ART N°	kg	CC
<b>Set-Components Quality Class M1</b>		
273282	0.001 – 0.500	on request
273283	0.001 – 1.000	on request
273285	0.001 – 5.000	on request
—	—	—
—	—	—