

## IND4x9 Combi Bench

Professional weighing technology for challenging environments



Picture: IND439-A6

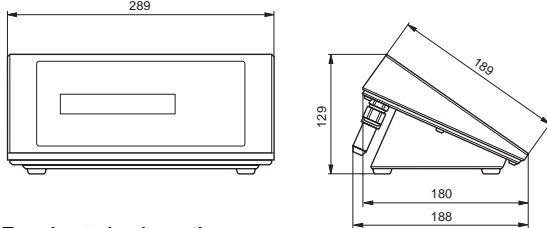
The IND4x9 Combi Bench scales from METTLER TOLEDO:

Precise weighing results in harsh environment thanks to:

- Stainless steel enclosure
  - IP69K protection
- EHEDG and NSF assessment
  - GMP certification

### IND4x9 – Combi bench

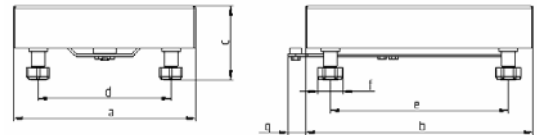
(Dimensions in mm)



#### Product designation:

IND4x9 + PBA430-... ⇒ IND4x9 - ...

(e.g.: IND439 + PBA430-BC150 ⇒ IND439-BC150)



Model	a	b	c	d	e	f*	g
	in mm						
PBA430-A...	240	300	95	175	235	30/34	22
PBA430-BB...	300	400	97	235	335	30/34	15
PBA430-B...	400	500	100	335	435	30/34	15
PBA430-BC...	500	650	108	435	587	30/34	15
PBA430-CC...	600	800	130	503	724	30/34	21

\*wrench opening/width across flats

### Enclosure / Environment

Material	Terminal: chrome-nickel-steel (AISI 304, 1.4301) Platform: chrome-nickel-steel (AISI 304, 1.4301, optional AISI 316 TI, 1.4571)
Ambient temperature	-10° to +40°C for verification class III
Humidity	Up to 80% rel., non condensing
Level	- 2000m / NN indoors

### Display / Units of weight

Backlit, 7-digit 7-segment LC-Display	
Character height	16mm (IND429), 21mm (IND439, IND439check, IND449, IND449check+)
Units of weight	g, kg, t, oz, lb

### Approvals / Assessments

Metrology	NTEP, OIML
Hygiene	NSF, EHEDG
Pharma industry	GMP
Electrical Safety	CSA – C US, CE, PSE (pending)
IP Protection	IP69K (DIN 40050)

### Analogue weighing technology

Terminal	Terminal with integrated A/D converter
Weighing platform	Analogue weighing platform with centrally placed hermetically sealed stainless steel load cell
Excitation	8.2 V
Max. Resolution	2 x 3000e (OIML) (complete scale)

	300000d non-approvable, depending on model
Min. verification interval	0.5µV / e (approvable)
Number of connectable platforms	IND429: one IND439, IND449: two

### Technical data of analogue 2nd scale connection\*

Impedance	min. 80 Ohm
Excitation	8.2 V
Sensitivity	2 to 3 mV/V
Max. Resolution	7500e (OIML) 300000d non approvable
Min. verification interval	0.5µV / e

\*technical data of analogue 2nd scale connection and technical data of A/D converter built in the indicator are equal!

### Power supply

Standard AC power supply	100 to 240 V AC, 47 to 63 Hz, 300 mA Power cord: approx. 2.3 m long
Optional 12 to 24 VDC connection, 1.0A	
Optional battery operation	
Charger	100 to 240 V AC, 47 to 63 Hz, 300 mA Power cord: approx. 2.3 m long
Operation time	9h typ. (continuous operation) 90h typ. ("power off mode" 1 min)
Charging time	6h typ.
Life time	1000 charge-/ discharge cycles typ.

\*\* Built-in options and peripherals reduce operation time!

Models				
Models	Capacity (kg)	readability standard (g)	Dimensions of platform (mm)	Order #
IND429-A6	3 / 6	1 / 2	240x300x95	22013901
IND429-A15	6 / 15	2 / 5	240x300x95	22013902
IND429-BB30	15 / 30	5 / 10	300x400x97	22013903
IND429-B30	15 / 30	5 / 10	400x500x100	22013904
IND429-BB60	30 / 60	10 / 20	300x400x97	22013905
IND429-B60	30 / 60	10 / 20	400x500x100	22013906
IND429-BC60	30 / 60	10 / 20	500x650x108	22013907
IND429-CC60	30 / 60	10 / 20	600x800x130	22013908
IND429-B150	60 / 150	20 / 50	400x500x100	22013909
IND429-BC150	60 / 150	20 / 50	500x650x108	22013910
IND429-CC150	60 / 150	20 / 50	600x800x130	22013911
IND429-BC300	150 / 300	50 / 100	500x650x108	22013912
IND429-CC300	150 / 300	50 / 100	600x800x130	22013913
IND429-CC600	300 / 600	100 / 200	600x800x130	22013914

IND439-A6	3 / 6	1 / 2	240x300x95	22013916
IND439-A15	6 / 15	2 / 5	240x300x95	22013917
IND439-BB30	15 / 30	5 / 10	300x400x97	22013918
IND439-B30	15 / 30	5 / 10	400x500x100	22013919
IND439-BB60	30 / 60	10 / 20	300x400x97	22013920
IND439-B60	30 / 60	10 / 20	400x500x100	22013921
IND439-BC60	30 / 60	10 / 20	500x650x108	22013922
IND439-CC60	30 / 60	10 / 20	600x800x130	22013923
IND439-B150	60 / 150	20 / 50	400x500x100	22013924
IND439-BC150	60 / 150	20 / 50	500x650x108	22013925
IND439-CC150	60 / 150	20 / 50	600x800x130	22013926
IND439-BC300	150 / 300	50 / 100	500x650x108	22013927
IND439-CC300	150 / 300	50 / 100	600x800x130	22013928
IND439-CC600	300 / 600	100 / 200	600x800x130	22013923

IND439check-A6	3 / 6	1 / 2	240x300x95	22018861
IND439check -A15	6 / 15	2 / 5	240x300x95	22018862
IND439check -BB30	15 / 30	5 / 10	300x400x97	22018863
IND439check -B30	15 / 30	5 / 10	400x500x100	22018864
IND439check -BB60	30 / 60	10 / 20	300x400x97	22018865
IND439check -B60	30 / 60	10 / 20	400x500x100	22018866
IND439check -BC60	30 / 60	10 / 20	500x650x108	22018867
IND439check -CC60	30 / 60	10 / 20	600x800x130	22018868
IND439check -B150	60 / 150	20 / 50	400x500x100	22018869
IND439check -BC150	60 / 150	20 / 50	500x650x108	22018870
IND439check -CC150	60 / 150	20 / 50	600x800x130	22018871
IND439check -BC300	150 / 300	50 / 100	500x650x108	22018872
IND439check -CC300	150 / 300	50 / 100	600x800x130	22018873
IND439check -CC600	300 / 600	100 / 200	600x800x130	22018874

IND449-A6	3 / 6	1 / 2	240x300x95	22013931
IND449-A15	6 / 15	2 / 5	240x300x95	22013932
IND449-BB30	15 / 30	5 / 10	300x400x97	22013933
IND449-B30	15 / 30	5 / 10	400x500x100	22013934
IND449-BB60	30 / 60	10 / 20	300x400x97	22013935
IND449-B60	30 / 60	10 / 20	400x500x100	22013936
IND449-BC60	30 / 60	10 / 20	500x650x108	22013937
IND449-CC60	30 / 60	10 / 20	600x800x130	22013938
IND449-B150	60 / 150	20 / 50	400x500x100	22013939
IND449-BC150	60 / 150	20 / 50	500x650x108	22013940
IND449-CC150	60 / 150	20 / 50	600x800x130	22013941
IND449-BC300	150 / 300	50 / 100	500x650x108	22013942
IND449-CC300	150 / 300	50 / 100	600x800x130	22013943
IND449-CC600	300 / 600	100 / 200	600x800x130	22013944

IND449check+-A6	3 / 6	1 / 2	240x300x95	22018876
IND449check+ -A15	6 / 15	2 / 5	240x300x95	22018877
IND449check+ -BB30	15 / 30	5 / 10	300x400x97	22018878
IND449check+ -B30	15 / 30	5 / 10	400x500x100	22018879

IND449check+ -BB60	30 / 60	10 / 20	300x400x97	22018880
IND449check+ -B60	30 / 60	10 / 20	400x500x100	22018881
IND449check+ -BC60	30 / 60	10 / 20	500x650x108	22018882
IND449check+ -CC60	30 / 60	10 / 20	600x800x130	22018883
IND449check+ -B150	60 / 150	20 / 50	400x500x100	22018884
IND449check+ -BC150	60 / 150	20 / 50	500x650x108	22018885
IND449check+ -CC150	60 / 150	20 / 50	600x800x130	22018886
IND449check+ -BC300	150 / 300	50 / 100	500x650x108	22018887
IND449check+ -CC300	150 / 300	50 / 100	600x800x130	22018888
IND449check+ -CC600	300 / 600	100 / 200	600x800x130	22018889
Optional resolutions	2 x 3000e approved, OIML class III			
	1 x 6000d non approvable			
	1 x 15000d non approvable			
	1 x 30000d non approvable			

Interfaces	
Standard	RS232
Optional: one more interface:	RS232
	RS422 / RS485
	Ethernet
	WLAN
	USB (Slave)
	Digital I/O (4 In / 4 out)
	Analogue 2nd scale interface (not IND429, IND439check, IND449check+)

Accessories	
GA46-thermal printer, stainless steel, RS232 interface, 2.5m cable incl.	00505471
GA46- thermal printer, stainless steel, RS232 interface, 0.4m cable incl.	00507229
GA46-W-thermal printer, stainless steel, RS232 interface, 2.5m cable incl., IP65, protective cover, winder.	00505799
GA46-W-thermal printer, stainless steel, RS232 interface, 0.4m cable incl., IP65, protective cover, winder.	00507230
AD1419 auxiliary display, stainless steel (IP69K, RS232, 3m cable incl., display without backlight)	22013962
AD1419 auxiliary display, stainless steel (IP69K, RS232, 3m cable incl., display with backlight)	22014022
RS232 - cable SICS second scale (3m, 8pin <-> 9pin Sub D plug)	22006795
RS232 - cable for PC (3m, 8pin <-> 9pin Sub D female connector)	00504376
RS232 counter plug, 8 pin	00503756
RS422/RS485 - cable (3m, 6pin <-> open ends)	00204933
RS485 counter plug, 6 pin	00204866
Ethernet 10/100 Base T twisted pair cable (5m -> 8pin RJ45)	00205247
Ethernet 10/100 Base T twisted pair cable (20m -> 8pin RJ45)	00208152
USB adapter cable (0.2m -> USB series A female connector)	22006268
USB adapter cable (3m -> USB series A female connector)	22007713
Relay box for digital I/O option (as for IND690)	22011967
Cable digital I/O option and relay box (10m)	00504458
Digital I/O counter plug, 19 pin	00504461
Protective cover for terminals IND4x9 (Set with 3 pieces)	22013963
Stand, stainless steel, for IND4x9 and PBA430, height 330mm	22013964
Stand, stainless steel, for IND4x9 and PBA430, height 660mm	22013965
Stand, stainless steel, for IND4x9 and KA-, KB, MA-, MB- and DB-platforms	22014836
Pillar support, stainless steel, for IND4x9, for bench 00503632 and 00504854	22014835
Floor stand, stainless steel, for IND4x9	22014834
Foot for floor stand	22011982
Wall adapter, stainless steel, for IND4x9, tiltable	22013966
Wall mount, stainless steel, for IND4x9, turnable and tiltable	22014833
GA46 mounting adapter, stainless steel, for pillar support, floor stand and wall mount (as for IND690)	22011985

Here, you will find additional information...					
	German	English	French	Spanish	Italian
Databrief IND4x9	22013830	22013831	22013832	22013833	22013834
Data sheet IND4x9	22013995	22013996	22013997	22013998	22013999
Data sheet PBA430	22010220	22010221	22010222	22010223	22010224
Databrief AD1419	22014030	22014031	22014032	22014033	22014034