METTLER TOLEDO

EX-weighing terminals: IND429xx - IND439xx - IND449xx - IND439xx check - IND449xx check+

Professional weighing technology for challenging environments



Precise weighing in harsh environment thanks to:

- Stainless steel enclosure
- IP69K protection
- Explosion proof for areas of Zone 2 and 22
- GMP Certification
- Weights and measures approved for Class II and III

Picture: IND449xx Technical Data

i common Data					
Enclosure / Environment					
Material	Chrome-nickel-steel (AISI 304, 1.4301)				
Ambient temperature	-10° to +40°C for Class III 0° to +40°C for Class II				
Humidity	Up to 80% rel., non condensing				
Level	Up to 2000m above sea level, indoors				
Terminal weight (net)	With AC power supply: approx. 2.2 kg With battery: approx. 2.8 kg				
Display					
Backlit, 7-digit, 7-segment LC-Display					

Dackiit, 7-digit, 7-3eginei	it LO-Display
Character height	16mm (IND429xx), 21mm (IND439xx, IND439check + xx, IND449xx, IND449check + xx)
Approvals / Assessm	
Metrology	NTEP, OIML
Hygiene	NSF, EHEDG

GMP

Pharma industry

Electrical Safety	CSA – C US, CE, PSE (pending)
Ignition protection	
Ignition protection IND4x9xx (acc. IEC 60079-15)	Hazardous area zone 2: Category II 3G EEx nA II T4 Ambient temperature –10 °C +40 °C Hazardous area zone 22: Category II 3D IP66 T

10	
Power supply	
Standard AC power supply	230 VAC +/- 10%, 47 to 63 Hz, 300 mA Power cord: approx. 2.3 m long
Optional 12 to 24 VDC connection, 1.0A)	Connection cable (approx. 5m) with open ends fixed to the terminal
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.

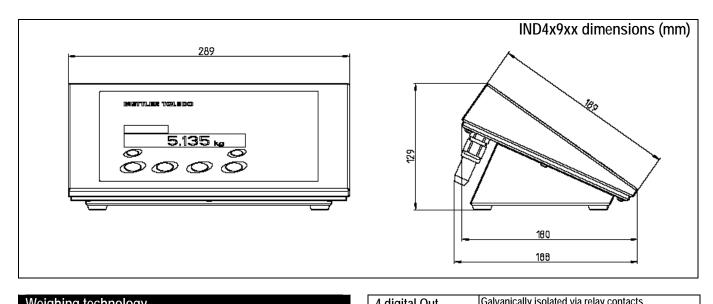
Built-in options and peripherals reduce operation time!

Keyboard	
Material	Polyester (PE)
Number of keys	IND429xx: 6
(keys with tactile feedback)	IND439xx / IND439xx check: 10
(112)2 11111 1111111 100000011)	IND449xx / IND449xx check+: 25

	IND429xx	IND439xx	IND449xx	IND439xx	IND449xx
				check	check+
Zero setting	•	•	•	•	•
Tare	•	•	•	•	•
Dynamic weighing	•	•	•	-	-
Unit switching	•	•	•	•	•
Printing / data transfer	•	•	•	•	•
MinWeigh	•	•	•	•	•
Counting	-	•	•	-	•
Checkweighing	-	-	•	•	•
Classifying (5 classes)	-	-	-	-	•
Totalising	-	-	•	-	
TakeAway Mode	-	-	-	-	•
100 memories for tare values,					
targets and average piece weights	-	-	•	-	-
99 memories for target weights					
and tolerances	-	-	-	•	•
99 memories for class parameters	-	-	-	-	•
2 scales operation	-	•	•	-	-
Identification (2 IDs)	-	-	•	-	•
Recall gross, tare and height					
resolution weight	-		•	-	•
Graphic indication of weighing	_				
range utilisation	_				
Multi color display					
(colorWeight®)	_	_	_	_	
Numeric keypad	-	-	•	-	•
Date / time	-	-	•	-	•
Beeper	-	-	•	-	•

Interfaces	
Standard	1 x RS232
Optional: one more interface:	- RS232 - RS422 / RS485 - Ethernet - USB (Slave) - WLAN - Digital I/O (4 In / 4 Out) - second scale connection (only IND439 and ND449)
The interfaces are accessible	via IDEOK protected recentacion at the rear cide of the

The interfaces are accessible via IP69K protected receptacles at the rear side of the terminal.



Weighing technol	logy				_			
Number of		IND429xx, IND439xx check, IND449xx check+: 1						
connectable platform	ns IND4	139xx, IND4	39xx, IND449xx: 2 (optional)					
Standard scale				ogue or IDNet				
connection	7 4101	oguo oi ibi						
	IDNo	t platforms i	platforms manufactured as from 2003 can					
IDNet compatibility		platforms manufactured as from 2003 can connected						
Possible 2-scales	logue terminal: Extension with second							
solution		analogue scale possible						
		IDNet terminal: Extension with second IDNet scale possible						
Remark: IND439xx / IND4 RS232/SICS-protocol.			ction of a se	cond scale	also via			
Technical Data ar	nalogue	scale c	onnecti	on				
Impedance	gao	min. 80 (
Excitation		8.2 V						
Sensitivity		2 to 3 m	V/V					
Max. resolution		10000d	NTFP)					
Max. 1650Iution		7500e (C	7500e (OIML)					
		300000d	– non-appr	ovable				
Min. verification inter	val	0.5 µV /	e (approvat	ole)				
Digital I/O								
4 digital In	galvani	cally isolat	ted via opto	coupler				
r argitar iii		l: 1 mA (external: 1 mA (min. 5 V DC)					
		8 mA (max. 30 V DC)						
1	1., ,	8 mA (max. 30 V [C)				
	internal:	: 3 mA (max. 30 V [at 12 V DC)	OC)	INDAAO			
		: 3 mA (max. 30 V [IND439xx	IND449xx			
On / Off	IND429xx	3 mA (ND439xx	max. 30 V Dat 12 V DC)	OC)	IND449xx check+			
On / Off Zero setting		: 3 mA (max. 30 V [at 12 V DC)	IND439xx check	check+			
On / Off Zero setting Taring	IND429xx	3 mA (ND439xx	max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+			
Zero setting Taring	IND429xx	3 mA (max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+			
Zero setting Taring Printing / transfer	IND429xx	3 mA (max. 30 V I at 12 V DC) IND449xx	IND439xx check	check+ • •			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching	• • •	3 mA (max. 30 V I at 12 V DC) IND449xx	IND439xx check	check+ • • • • •			
Zero setting Taring Printing / transfer Clearing (Clear key)	IND429xx	3 mA (v. IND439xx	max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+ • • • • • •			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key	IND429xx	3 mA ()	max. 30 V E at 12 V DC) IND449xx • • • • •	IND439xx check	check+			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key ID1, ID2/REF key	IND429xx	3 mA ()	max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+ • • • • • • • • • •			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key ID1, ID2/REF key Target key	IND429x3	3 mA (in ND439xx)	max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key ID1, ID2/REF key Target key Recall key	IND429x3	3 mA (in ND439xx	max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key ID1, ID2/REF key Target key Recall key Save key	IND429x3	3 mA (i	max. 30 V I at 12 V DC) IND449xx	IND439xx check	check+			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key ID1, ID2/REF key Target key Recall key Save key Arrow right	IND429x3	3 mA (i	max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key ID1, ID2/REF key Target key Recall key Save key Arrow right Arrow up	IND429x3	3 mA (i	max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key ID1, ID2/REF key Target key Recall key Save key Arrow right Arrow up Arrow down	IND429x3	3 mA (i	max. 30 V I at 12 V DC) IND449xx	IND439xx check	Check+			
Zero setting Taring Printing / transfer Clearing (Clear key) Unit switching Reference 10 / variable Info key ID1, ID2/REF key Target key Recall key Save key Arrow right Arrow up	IND429x3	3 mA (i	max. 30 V E at 12 V DC) IND449xx	IND439xx check	check+			

4 digital Out	Galvanically isolated via relay contacts					
	external: 500 mA (max. 30 V DC) per out					
	internal:	400 mA (b	ei 12 V DC)	total outs 1.		
	IND429xx	IND439xx	IND449xx	IND439xx	IND449xx	
				check	check+	
Stable weight	•	•	•	•	•	
≥ MinWeigh</td <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td>	•	•	•	•	•	
Overload / underload	•	•	•	•	•	
Star display	•	•	•	•	•	
< tolerance -	-	-	•	•	•	
Inside tolerance	-	-	•	•	•	
Target weight	-	-	-	•	•	
≥ tolerance +	-	-	•	•	•	
< Max n	-	-	•	-	-	
Max n reached	-	-	•	-	-	
< Setpoint 1 (2)	•	•	•	-	-	
≥ Setpoint 1 (2)	•	•	•	-	-	
Class 15	-	-	-	-	•	
Accessory for IND IND439xx check, I	ND449>	x chec	k		22222	
RS232 – cable SICS second					22006795	
RS232 - cable for PC (3m, 8	spin <-> 9p	in Sub D te	emale conn	ector)	00504376 00503756	
RS232 counter plug, 8 pin						
RS422/RS485 - cable (3m, 6pin <-> open ends)						
RS485 counter plug, 6 pin						
Ethernet 10/100 Base T twisted pair cable (5m -> 8pin RJ45) Ethernet 10/100 Base T twisted pair cable (20m -> 8pin RJ45)						
USB adapter cable (0.2m ->					00208152 22006268	
USB adapter cable (3m -> L)	22000200	
USB cable (3m -> USB seri					22017713	
			1)		00504458	
Cable digital I/O option and relay box (10m)					00504450	
Digital I/O counter plug, 19 pin 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	
Bench (PBA430-B); stainless steel; height apprx. 560 mm					00503632	
Bench (PBA430-CC); stainless steel; height apprx. 560 mm					00504854	
Floor stand, stainless steel, for IND4x9					22014834	
Base for floor stand					22011982	
Wall adapter, stainless steel, for IND4x9, tiltable					22013966	
Wall mount, stainless steel,					22014833	
GA46 mounting adapter, stainless steel, for pillar support, floor stand and wall mount (as for IND690)					22011985	
SICS reference manual 4 S	SICS reference manual 4 Series					