

Weighing Indicators



IND400 Indicators

Intuitive Touch Interface

Complete Process Visibility

Prioritized Data Integrity

Simple Label Customization

Effortless Operational Efficiency

Touch The Future

METTLER TOLEDO

IND400 Weighing Indicator

Productivity through Intuitive Use

The IND400 family of weighing indicators delivers an intuitive user experience and secure data access, packaged in a simple graphical touchscreen display. Whether you have basic weighing processes or more complex applications, the IND400 allows you to upgrade your operation without reimagining your workflows to maximize your productivity and be audit-ready anytime.

► www.mt.com/IND400



Touch the Future

Eliminate historic headaches of tedious training, operator fatigue, and slow startup. The touch interface speeds up parameter settings and navigation, while the user-friendly UI presents clear and intuitive weighing results, and optional pre-built weighing applications reduce startup complexity.



Make Data-Driven Decisions

Visualize the full production picture to make data-driven, timely decisions for your most critical processes. With flexible communication options, you can easily connect the IND400 to your ERP, MES, or PLM system and exchange data between devices.



Be Audit-Ready Anytime

Have confidence in your data and simplify your compliance efforts. The user management and time server functions ensure the traceability of data, and additional data integrity features enable full compliance with ALCOA++ principles.



Real-Time Monitoring for Peace of Mind

Achieve peace of mind with full system visibility and real-time monitoring provided by a user-friendly graphical interface and POWERCELL® sensor technology. Operator guidance and system status alerts enable faster troubleshooting, minimize downtime, and reduce waste.

The IND400 indicator drives productivity across many industries:



Food



Chemical and
Pharma



Metal, Plastics,
and Electronics



We offer global and local partnership, no matter where you do business.

Whether you are a multinational business or a systems integrator serving customers worldwide, our globally approved weighing platforms enable you to standardize your weighing solutions to minimize procurement and engineering hours and deliver a reliable value to your customers or production facilities worldwide. Our comprehensive consulting and extensive weighing portfolio are available to help you simplify your job.

Touch the Future of Manufacturing

Faster Operation, Fewer Errors

The interactive graphical interface of the IND400 indicator provides better visibility to read values at a glance, speeds up menu navigation, and enables quick data input and task execution, even for your newest employees. With easy-to-use, built-in weighing applications, you can configure the indicator to your unique needs and start seeing results right away.



5" Color Display

Minimize training time, avoid operator fatigue, and reduce human errors with clear, highly visible prompts and results.

Capacitive Touchscreen

Benefit from higher sensitivity and optimized touch algorithms that allow for precise touch, light touch, timely response, and smooth sliding, even when you are wearing gloves.

Intuitive UI/UX

Leverage familiar features like toggle, time picker, and the brightness slider to control the system settings like your smartphone.

Hygienic Enclosure Design

Leave no room for moisture or bacteria accumulation with the IP69K-rated stainless-steel construction that withstands heavy wash down.

Uninterrupted, Failure-Free Operation

Reduce malfunction risk with uninterrupted battery power and advanced safety protection, delivering continuous reliability.

colorWeight® Functionality

Speed up weighing processes and minimize waste with the simple three-color display system that confirms results at a glance.

Design, Print, Deliver

With IND400's built-in software, customize your material labels to meet your unique needs and modify them as you go; no expertise or PC is required. By modifying existing templates, you eliminate the need for creating new designs from scratch, saving time and reducing operational costs.

Make Data-Driven Decisions Connectivity Delivers Visibility

Data is your business's most critical asset, as it is the foundation of Lean operations and innovative practices. IND400's rich communication interfaces facilitate data sharing from your manual processes into the overall enterprise system, forming a digital closed loop where your information is securely accessible where and when you need it.

IND400 provides visibility into your operation:



Easy Integration with Cloud and ERP Systems

Access and share data on inventory management, quality control, and other production performance with connectivity via Ethernet, serial, USB, or WiFi to your MES / ERP systems.



Connectivity for Seamless Communication

Easily exchange data between devices including printers, barcode scanners, or other peripherals, and integrate IND400 into existing processes with connectivity via Modbus RTU or Modbus TCP.



Designed and Tested for Cybersecurity

IND400's rigorous cybersecurity testing and low-risk verification report demonstrate our commitment to protecting customer privacy and transaction data. Unauthorized activities can be identified quickly, helping to prevent tampering or flag potential data breaches.



Seamless IIoT Connectivity

The IND400 features MQTT Client functionality for seamless connections to brokers or cloud servers using the MQTT IoT protocol. Additionally, it includes the MT OPEN API, which combines a set of REST and WebSocket APIs to provide a standardized interface for delivering weighing data to management systems.

Be Audit-Ready Any Time

Complete, Reliable Reporting

Simplify compliance with on-demand, verifiable documentation and reporting, supported by IND400's data integrity feature bundle. Audit trails track every action and change made within the indicator, attributing them to specific users to promote accountability and transparency, making it clear who performed each action and when.

IND400 supports data integrity per ALCOA++ principles:

A

Attributable

The data integrity features ensure that every transaction is recorded together with a user account as well as date and time. Users can be assigned to customizable permission groups, and password policies ensure the security of user accounts.

L

Legible

IND400 can store up to 300,000 weighing records and is equipped with electronic signature functionality, allowing for weighing data to be reviewed directly on the indicator.

C

Contemporaneous

IND400 also supports NTP time-server functionality, allowing it to synchronize with the factory time server to ensure accurate timestamping of every weighing log. A high-performance internal time chip is also built in to reduce the frequency of manual time setting in situations where there is no network available.

O

Original

The built-in SHA-256 hash chain encryption policy ensures that source data cannot be tampered with. Encrypted PDF and CSV file exports are also available to ensure secure archival of data as certified true copies.

A

Accuracy and Traceability

The comprehensive audit trail logging feature ensures that all user actions relating to data generation, review, and deletion are recorded. These operations are time-stamped and tracked for audit purposes, ensuring the integrity and security of the data.



Real-Time Monitoring for Peace of Mind Comprehensive System Visibility

With an intuitive graphical interface and smartphone-like operation, IND400 maximizes the value of POWERCELL® condition monitoring capabilities. Proactive alerts for overloads, shock loads, and extreme temperature deviations enable you to quickly address issues, prevent waste, and maximize uptime.

► www.mt.com/ind-powercell



Loading Alerts

Graphical guidance helps users position items at the center of the scale for accurate measurements. Alerts for misplacement prevent inaccuracies from negatively impacting your operations.



Condition Monitoring

With active condition monitoring, the system continuously checks the status of each sensor, monitors for overload, and tracks zero drift parameters to prevent unexpected failures.



Leveling Guidance

Built-in factory leveling test parameters help users quickly adjust the scale platform to save time, enhance efficiency, and achieve optimal measurement accuracy.

Technical Data
IND400 Specifications

Specifications	
Enclosure Type and Dimensions	Stainless electropolished enclosure, 304 stainless-steel, 239 x 155 x 77 mm (9.4 x 6.1 x 3.0 in) VESA 75 or VESA 100 bracket, desk mounting plate and panel-mount bracket Aluminum die cast enclosure, 246 x 164 x 77 mm (9.7 x 6.5 x 3.0 in), column and wall bracket
Keypad	Membrane keyboard for Print, Tare, Clear, Zero and 5 Softkeys
Display	High-resolution capacitive touch graphic display, TFT anti-glare 127 mm (5 in), 800 x 480 px
Clock Accuracy	< 1 second / day (without time server access) at 25° C consistent room temperature, NTP is supported
Shipping Weight	2.4 kg / 5.3 lb (net weight)
Environment Protection	Stainless-steel: IP69k Aluminum die cast: IP65
Power	Wide range power supply 100 - 240 VAC 50/60 Hz Optional lithium battery: 12V / 2.5A. Optional DC power: 12-30 VDC, 667 mA - 267 mA
Supported Scale Types	1 scale interface for Analog or Digital (SICSpro) platform or PowerDeck floor scale
Analog/Digital Update Rates	Analog: ≥400 Hz; SICSpro: 50 Hz for scale that include Advanced Setup Mode 1-4 POWERCELL: 100 Hz 5-12 POWERCELL: 50 Hz
Weight Display	Display resolution of 1,000,000 d for analog load cell scale Display resolution for SICSpro bases is determined by the specific base used Display resolution for POWERCELL determined by the specific base used
Applications	Basic weighing, counting, over/under checkweighing, animal weighing, manual filling, totalizing, classification, data integrity, REM to Feeweigh.Net
Optional Interfaces	Stainless-steel version with 2 optional ports, Aluminum diecast version with 3 optional ports: Discrete I/O interface with 4 inputs and 4 outputs RS-232 serial port (300 to 115,200 baud) RS-232 with 5V serial port (300 to 115,200 baud) and with 5V DC output RS-485 serial port (300 to 115,200 baud) USB OTG with USB 2.0 up to 12Mbit/s support USB hub, USB stick, USB scanner, PC etc. USB Host with USB 2.0 up to 12Mbit/s support USB hub, USB stick, USB scanner, etc. Ethernet TCP/IP with 10/100 Mbps auto-negotiation Wi-Fi 4, 2.4 GHz / 5 GHz (supporting 802.11 a,b,g,n)
Protocols	ASCII commands for CTPZ (Clear, Tare, Print, Zero), SICS commands and Shared Data Server Access Continuous or Transfer with up to ten configurable print templates or remote scale protocols PSCP for pharma bioreactors Modbus TCP/Modbus RTU: Modbus protocols for weighing data and CTPZ command MQTT client protocols support Cloud connections, Open API protocol for external systems FTP/FTPs client protocols for files transfer, VNC server is also supported LDAP protocol for remote user access
Interface and Function Update Rates	Weight display: 20 Hz Internal discrete I/O: 50 Hz SICS continuous (SIR): up to 20 Hz Modbus response time: < 50 mS MT Continuous Output: up to 20 Hz
Approvals	Analog USA: NTEP Class III/IIIL 10,000d Canada: Class III 10,000d; Class IIIHD, 10,000d Europe: OIML R76 Class III 10,000e and Class IIII 1,000e China: CPA Class III 10,000e Digital: POWERCELL, SICSpro USA: NTEP Class II 100,000d; Class III/IIIL 10,000d Canada: Class II 100,000d; Class III 10,000d; Class IIIHD, 10,000d Europe: OIML Class II 100,000d; Class III/IIIL 10,000d
Operating Environment	Application: Indoor use only Altitude: Up to 2,000 m Temperature range Class III: -10 to 40 °C / 14 to 104 °F Overvoltage category: II Pollution degree: 2 Humidity range: 10 to 95% relative humidity, non-condensing

Accessories
Compatible with IND400

Stainless-Steel Version Brackets		Aluminum Die Cast Version Brackets	
22021070	Desk Mounting Plate(T-version)	30978548	IND400 Die Cast Bracket Kit for Column and Wall
30844002	VESA Mount Bracket Kit IND400	-	-
30844003	Panel Mount Bracket Kit IND400	-	-
30934086	IND400 Front Mount Bracket for PBA4/PBK9	-	-
30934087	IND400 Front Mount Bracket for PBA639/PBD659	-	-
Stainless-Steel Version Communication Cable		Aluminum Die Cast Version Communication Cable	
30876373	Cable 90° M12 8P RS232 DB9F 3m Kit	30978549	Cable M12 8P RS232 DB9F 3m Kit
30876374	Cable 90° M12 6P RS485 Open 3m Kit	30978550	Cable M12 6P RS485 Open 3m Kit
30876375	Cable 90° M12 4P Eth RJ45 Male 20m Kit	30978551	Cable M12 4P Eth RJ45 Male 5m Kit
30876376	Cable 90° M12 4P Eth RJ45 Male 5m Kit	30978552	Cable M12 12P DIO Open 10m Kit
30876377	Cable 90° M12 12P DIO Open 10m Kit	30978553	Cable M12 5P USBA Female 0.2m Kit
30876378	Cable 90° M12 5P USBA Female 0.2m Kit	30978554	Cable M12 5P USBA Plug 1.5m Kit
30876379	Cable 90° M12 5P USBA Plug 1.5m Kit	31033700	Cable M12 5P RS232 PQ16 3m Kit
31008535	Cable 90° M12 5P RS232 PQ16 3m Kit	31033701	Cable M12 8P RS232 DB9M 3m Kit
31008536	Cable 90° M12 8P RS232 DB9M 3m Kit	-	-
App Upgrade License			
30876380	License Alibi Option Kit IND400		
30876381	License Multi App Option Kit IND400		
30876383	License DI Option Kit IND400		
30876385	License Upgrade Kit Multi App IND400		
30876387	License Upgrade Kit DI IND400		
30876388	License Modbus RTU Option Kit IND400		
30876389	License Modbus TCP Option Kit IND400		
Others			
30898380	PET Touch Screen Cover Kit IND400 Stainless	30978562	PET Touch Screen Cover Kit IND400 Aluminum

Complete Your Weighing Solution
Browse Scales for Your Application



Bench Scales
Maximize throughput and minimize errors in tabletop weighing processes with compact, reliable bench platforms.
www.mt.com/bench-scales



Floor Scales
Achieve precise weighing of bulky and heavy goods with rugged and accurate METTLER TOLEDO floor scales.
www.mt.com/floor-scales

Application View Examples

Over/Under Checkweighing



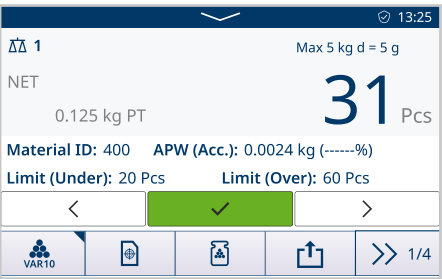
Classification



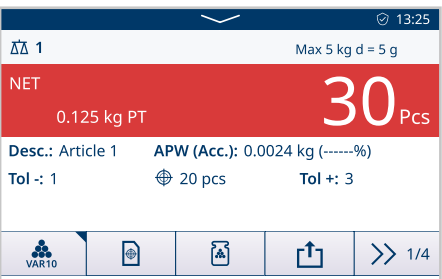
Manual Filling



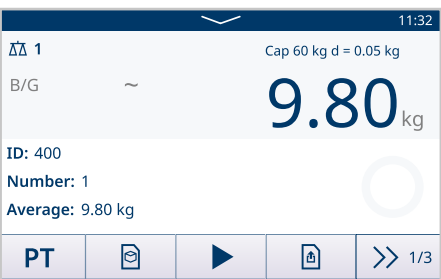
Counting and Check-Counting with colorWeight®



Totalization



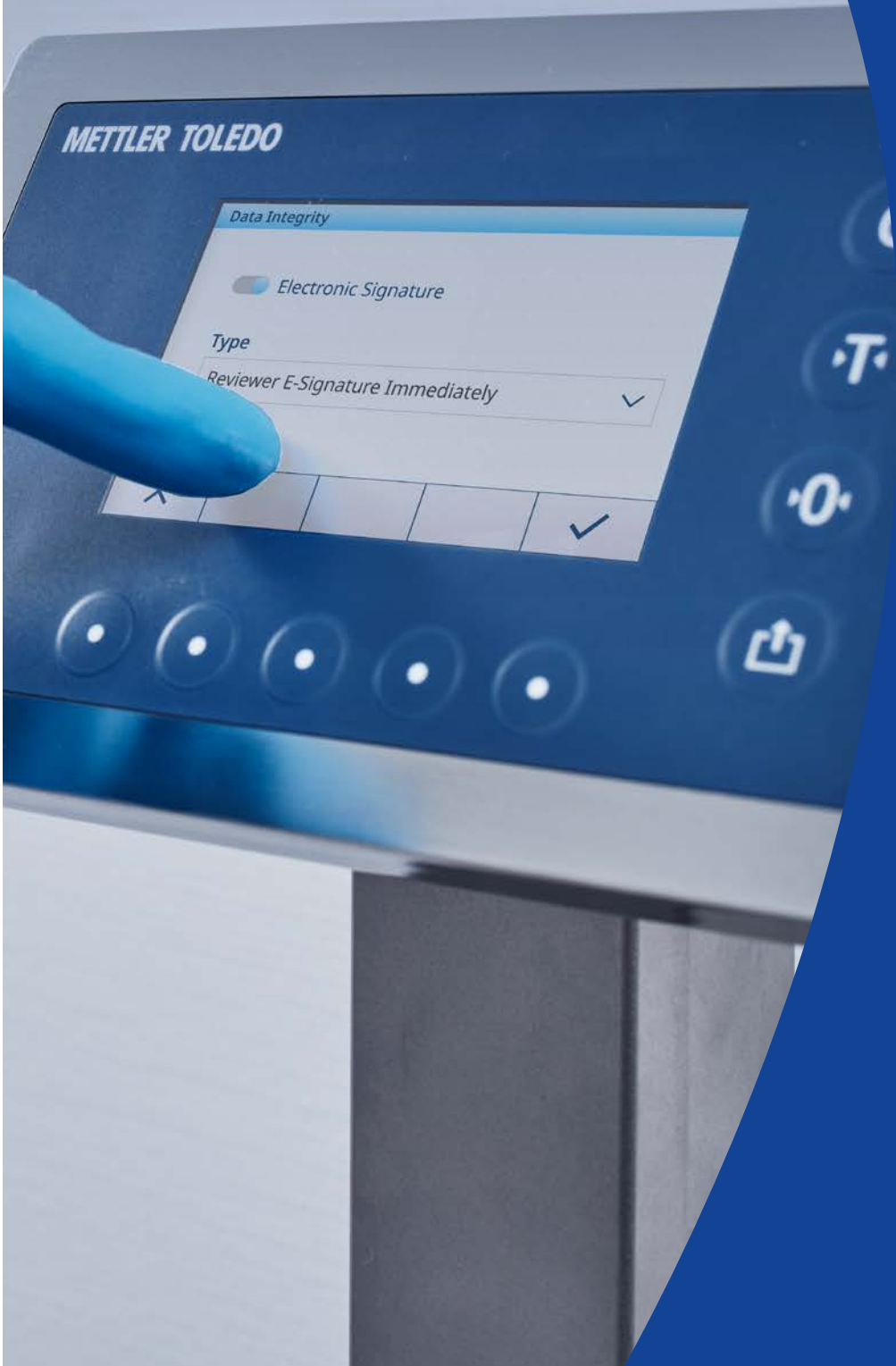
Animal Weighing



REM to Feeweigh.Net



Data Integrity



User Management

Terminal > User Management	
Device	> Role Definition
User Management	> User Definition
	Password Policy
	Import
	Export
Home	

Audit Trail Log

Audit Trail	
ID	486
Date & Time	04/Dec/2024 15:07:28
User Name	Admin
User ID	007
Category	Access
Event	Password policy setting
Back	

Electronic Signature

Electronic Signature

Type

Reviewer E-Signature Immediately

X 1/2 3/4 5/5

Explore Our Service Solutions

Tailored to Fit Your Equipment Needs

METTLER TOLEDO Service delivers resources to enhance your efficiency, performance, and productivity by providing service packages that fit your operational needs, maximize your equipment lifetime, and protect your investment.

► www.mt.com/IND-Service



Optimize Performance with Professional Installation

Setup your equipment to operate efficiently with our installation and qualification services, complete with professional documentation and user training.



Calibrate for Quality and Compliance

Achieve measurement accuracy and receive documentation with our tiered calibration offering tailored to your requirements, such as compliance with OIML R76 and NTEP HB44.



Maintain Accuracy with a Quality Assurance Plan

Receive professional guidance (GWP® Verification™), including a routine testing plan that specifies four key factors to maximize your efficiency and ensure quality:

- Tests to perform
- Testing frequency
- Weights to use
- Tolerances to apply



Protect Your Investment from the Start

With our Extended Care service package, receive 24 months of full coverage following installation, including two preventive maintenance visits and cost coverage for labor and replacement parts.



Maximize Equipment Reliability and Longevity

Optimize your equipment's performance with our preventive maintenance plans that include inspections, functional testing, and proactive parts replacement.



How-To Videos: Enhance Your Weighing Experience

Discover our range of how-to videos at

www.mt.com/ind-youtube

for tips and techniques to best utilize your equipment.

www.mt.com/IND400

For more information

METTLER TOLEDO Group

Industrial Division

Local contact: www.mt.com/contacts

Subject to technical changes

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MarCom Industrial (SD)

