

Industrial Bench Scales



BBD555 – BBK785

Robust and Reliable

Prioritized Data Integrity

Complete Process Visibility

Tool-Free Quick Leveling



Your Rugged and Precise Solution
Efficient, Connected, Reliable

METTLER TOLEDO

BBD555 and BBK785 Bench Scales

Durability Meets Precision

The BBD555-400 and BBK785-400 industrial bench scales combine the precision of the PBD555 or PBK785 digital bench platforms with the rugged IND400 aluminum die cast indicator to deliver durability and accuracy. These bench scales enable seamless data integration and user-friendly operation, making them ideal for demanding production industries such as metals, plastics, and packaged goods. They boost efficiency and confidence in material handling and quality control throughout your operation.

► www.mt.com/BBD555-BBK785



Smart Solutions, Reliable Results

When tolerances are tight, receive reliable results to manage raw materials and adhere to regulations with smart load cells. Choose from MonoBloc® for highest precision or digital strain gauge for high performance.



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 MES or ERP systems.



Be Audit-Ready Anytime

Be audit-ready at any moment, have confidence in your data, and simplify your compliance efforts. Gain access to full data traceability with user management and time server functions, plus additional data integrity features.



Quick Setup with Ergonomic Leveling

Eliminate the need for tools and experience the flexibility of quick setup with easy-to-adjust feet. The level bubble can also be mounted on the long or short platform side for ergonomic levelling.

Precision weighing for every step of your workflow:

Production and Processing

Producing small electronics, metal pieces, or plastic parts requires high precision to manage slight variations between batches. Achieve your production targets with greater accuracy and fewer errors.



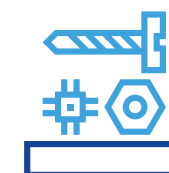
Material Receiving and Warehouse Stock

Whether receiving materials or taking stock of inventory, fast and accurate weighing and counting help speed up inbound processing, maintain precise inventory records, and shorten dock-to-stock cycles.



Manufacturing QC/QA

When quality matters, you need robust, high accuracy scales that easily integrate into your QC systems. Ensure reliable pass/fail decisions and full traceability for non-conforming parts with confidence.



Smart Solutions, Reliable Results Designed for Dusty Environments

Built with a tough aluminum die cast structure, the BBD555 and BBK785 bench scales provide precise measurements in industrial environments. The BBK785 is designed with high-accuracy MonoBloc® base using force compensation for next-level precision. Both models include limited dust protection, with optional total dust protection available on the BBK785*. These scales perform reliably in harsh, dry, and dusty environments across receiving, inspection, manufacturing, warehousing, packaging, and shipping.

*IP65 option available on all BBK785-400 models except XS0.6.



Communication and Battery Options

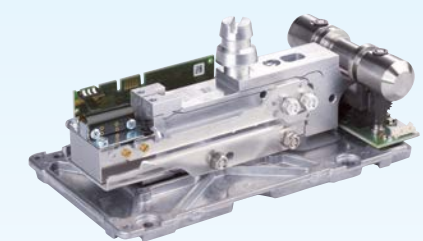
The IND400 indicator provides up to three communication ports for top-of-the-line connectivity. Plus, the battery lets you easily move the scale around your facility, expanding its usability wherever you need it.



For Best Performance – BBD555-400
METTLER TOLEDO digital strain gauge load cells with up to 7,500e (OIML), 6,000e (NTEP), and 75,000d Non-approved.

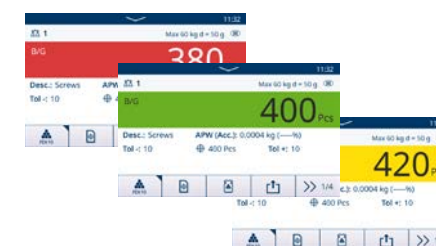


For Highest Precision – BBK785-400
MonoBloc® load cells based on force compensation up to 61,000e (OIML), 60,000e (NTEP), and 610,000d Non-approved.



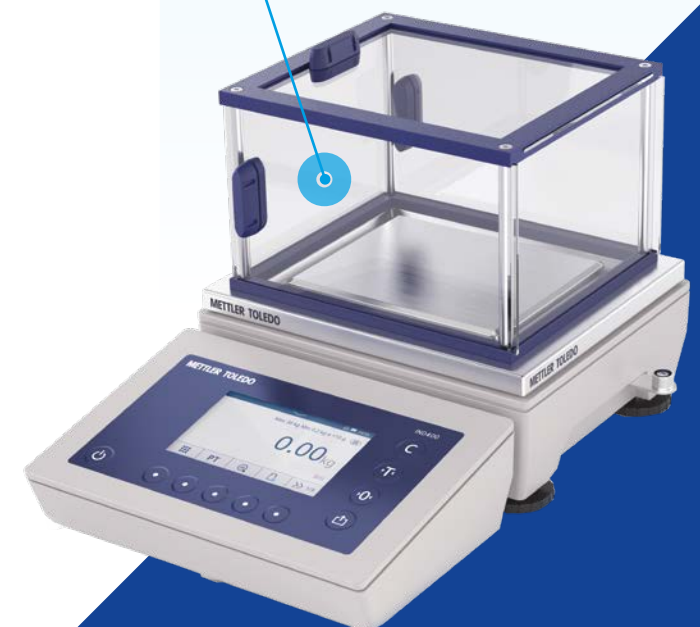
Draft Shield Options

Ideal results require an ideal environment. Enhance your BBK785 with the optional windshield for faster settling times and accurate measurements.



colorWeight® for Fast Production

Save time and money with colorWeight®, the advanced colored display designed to simplify and speed up weighing applications like completeness checks, portioning, classification, and counting. The intuitive color-coded display instantly shows whether the weight or count is below, within, or above target.



Learn more
www.mt.com/BBD555-BBK785

Enhance Operational Efficiency Integrated Applications and Reliable Data

The IND400 indicator features a 5" touch display that enhances visibility, speeds up menu navigation, and enables quick data input, making it easy for all users to operate. Its built-in weighing applications can be customized to fit your specific needs, delivering immediate, reliable results. Prioritizing data integrity, the IND400 adheres to ALCOA++ principles with comprehensive audit trails that promote transparency and support regulatory compliance.

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 Web-Socket APIs to deliver data to management systems.



Explore the IND400's built-in applications:

- Over/Under Checkweighing
- Manual Filling
- Totalization
- Animal Weighing
- Classification
- Counting and Check-Counting
- REM to FreeWeigh.net

Technical Specifications

BBD555-400

Specifications

Article #	31055612
Platform / Terminal Model	PBK555 / IND400
Platform Material	Aluminum Die Cast
Load Platter Material	Stainless Steel (AISI 304)
Load Platter Surface	Ra ≤ 0.8 μm
Platform Feet Material	Rubber
Load Cell Cable Material	PVC
Ingress Protection	IP54
Scale interface	SICSpro

Weighing Performance (metric units)

Model	SM3	SM6	LA15	LA35
Platter Dimensions (mm)	240x200	240x200	350x240	350x240
Capacity (kg)	3	6	15	35
Max Resolution	60,000d	60,000d	75,000d	70,000d
Readability at Max Resolution (g)	0.05	0.1	0.2	0.5
Typ. Repeatability sd at Full Load (g)	0.05	0.1	0.2	0.5

Weighing Performance (imperial units)

Model	SM3	SM6	LA15	LA35
Platter Dimensions (inch)	9.45x7.87	9.45x7.87	13.78x9.45	13.78x9.45
Max Capacity (lb)	6	12	30	60
Max Resolution	60,000d	60,000d	60,000d	60,000d
Readability at Max Resolution (lb)	0.0001	0.0002	0.0005	0.001
Typ. Repeatability sd at Full Load (lb)	0.0001	0.0002	0.0005	0.001



Weights and Measures

Legal for Trade Data

OIML Legal for Trade Data (metric units)

Model	SM3	SM6	LA15	LA35
Maximum Capacity (kg)	3	6	15	35
Approved Resolution Single Range	6,000e	6,000e	7,500e	7,000e
Approved Readability (g)	0.5	1	2	5
Approval Class	Class III – OIML, CPA			
Power Up Zero Range	+18% / -2%			
Operating Environment	-10 to 40 °C			

OIML (International Organization of Legal Metrology)

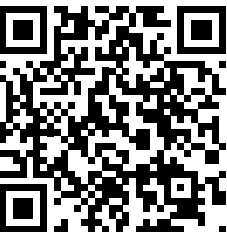
OIML certification provides confidence that a weighing device complies with the OIML R76 regulation, which establishes the metrological characteristics required for weighing instruments and specifies methods and equipment for checking their conformity.

NTEP Legal for Trade Data (imperial units)

Model	SM3	SM6	LA15	LA35
Maximum Capacity (lb)	6	12	30	60
Approved Resolution Single Range	6,000e	6,000e	6,000e	6,000e
Approved Readability (lb)	0.001	0.002	0.005	0.01
Approval Class	Class III – NTEP			
Operating Environment	-14 to 104 °F			

NTEP (National Type Evaluation Program)

NTEP certification provides confidence that a weighing device will be manufactured in accordance with United States Weights and Measures standards. NTEP relies on specialized committees to develop the technical policies, evaluation checklists, and test procedures used by authorized laboratories to evaluate devices such as scales.



Legal-for-Trade Information

For additional legal-for-trade information (OIML, NTEP, CPA, CE), please refer to the respective documentation for each component listed on page 15. You can also find up-to-date compliance documentation on mt.com by searching BBD555 or BBK785.

► www.mt.com/compliance

Technical Specifications

BBK785-400

Specifications

Article #	31055613
Platform / Terminal Model	PBK785 / IND400
Platform Material	Aluminum Die Cast
Load Platter Material	Stainless Steel (AISI 304)
Load Platter Surface	Ra ≤ 0.8 µm
Platform Feet Material	Rubber
Load Cell Cable Material	PVC
Ingress Protection	IP54 (IP65 optional except for XS0.6)
Scale interface	SICSpro - MonoBloc®

Weighing Performance (metric units)

Model	XS0.6	XS3	XS6	SM6	LA15	LA35
Platter Dimensions (mm)	160x130	160x130	160x130	240x200	350x240	350x240
Capacity (kg)	0.61	3.1	6.1	6.1	15.1	35.1
Max Resolution	610,000d	310,000d	610,000d	305,000d	302,000d	351,000d
Readability at Max Resolution (g)	0.001	0.01	0.01	0.02	0.05	0.1
Typ. Repeatability sd at Full Load (g)	0.001	0.01	0.01	0.02	0.05	0.1

Weighing Performance (imperial units)

Model	XS0.6	XS3	XS6	SM6	LA15	LA35
Platter Dimensions (inch)	6.30x5.12	6.30x5.12	6.30x5.12	9.45x7.87	13.78x9.45	13.78x9.45
Max Capacity (lb)	1.2	6	12	12	30	60
Max Resolution	600,000d	300,000d	600,000d	240,000d	300,000d	300,000d
Readability at Max Resolution (lb)	0.000002	0.00002	0.00002	0.00005	0.0001	0.0002
Typ. Repeatability sd at Full Load (lb)	0.000002	0.00002	0.00002	0.00005	0.0001	0.0002



Weights and Measures

Legal for Trade Data

OIML Legal for Trade Data (metric units)

Model	XS0.6	XS3	XS6	SM6	LA15	LA35
Maximum Capacity (kg)	0.61	3.1	6.1	6.1	15.1	35.1
Approved Resolution Single Range	61,000e	31,000e	61,000e	30,500e	30,200e	35,100e
Approved Readability (g)	0.01	0.1	0.1	0.2	0.5	1
Resolution with Auxiliary Device*	610,000d	310,000d	610,000d	61,000d	151,000d	351,000d
Readability with Auxiliary Device* (g)	0.001	0.01	0.01	0.1	0.1	0.1
Approval Class	Class II – OIML, CPA					
Power Up Zero Range	±2%	+18% / -2%				
Operating Environment	10 to 30 °C			5 to 40 °C		

*In class II, OIML allows the use of an auxiliary indicating device to display d, where d = e/10. The approved readability of models SM6 and LA15 is e = 1 g in this case.

OIML (International Organization of Legal Metrology)

OIML certification provides confidence that a weighing device complies with the OIML R76 regulation, which establishes the metrological characteristics required for weighing instruments and specifies methods and equipment for checking their conformity.

NTEP Legal for Trade Data (imperial units)

Model	XS0.6	XS3	XS6	SM6	LA15	LA35
Max Capacity (lb)	1.2	6	12	12	30	60
Approved Resolution Single Range	60,000e	30,000e	60,000e	24,000e	30,000e	30,000e
Approved Readability (lb)	0.00002	0.0002	0.0002	0.0005	0.001	0.002
Resolution with Auxiliary Device**	600,000d	300,000d	600,000d	240,000d	300,000d	300,000d
Readability with Auxiliary Device** (lb)	0.000002	0.00002	0.00002	0.00005	0.0001	0.0002
Approval Class	Class II – NTEP					
Operating Environment	50 to 86 °F					

**In class II, NTEP allows the use of an auxiliary indicating device to display d, where d = e/10.

NTEP (National Type Evaluation Program)

NTEP certification provides confidence that a weighing device will be manufactured in accordance with United States Weights and Measures standards. NTEP relies on specialized committees to develop the technical policies, evaluation checklists, and test procedures used by authorized laboratories to evaluate devices such as scales.



Legal-for-Trade Information

For additional legal-for-trade information (OIML, NTEP, CPA, CE), please refer to the respective documentation for each component listed on page 15. You can also find up-to-date compliance documentation on mt.com by searching BBD555 or BBK785.

► www.mt.com/compliance

Technical Specifications

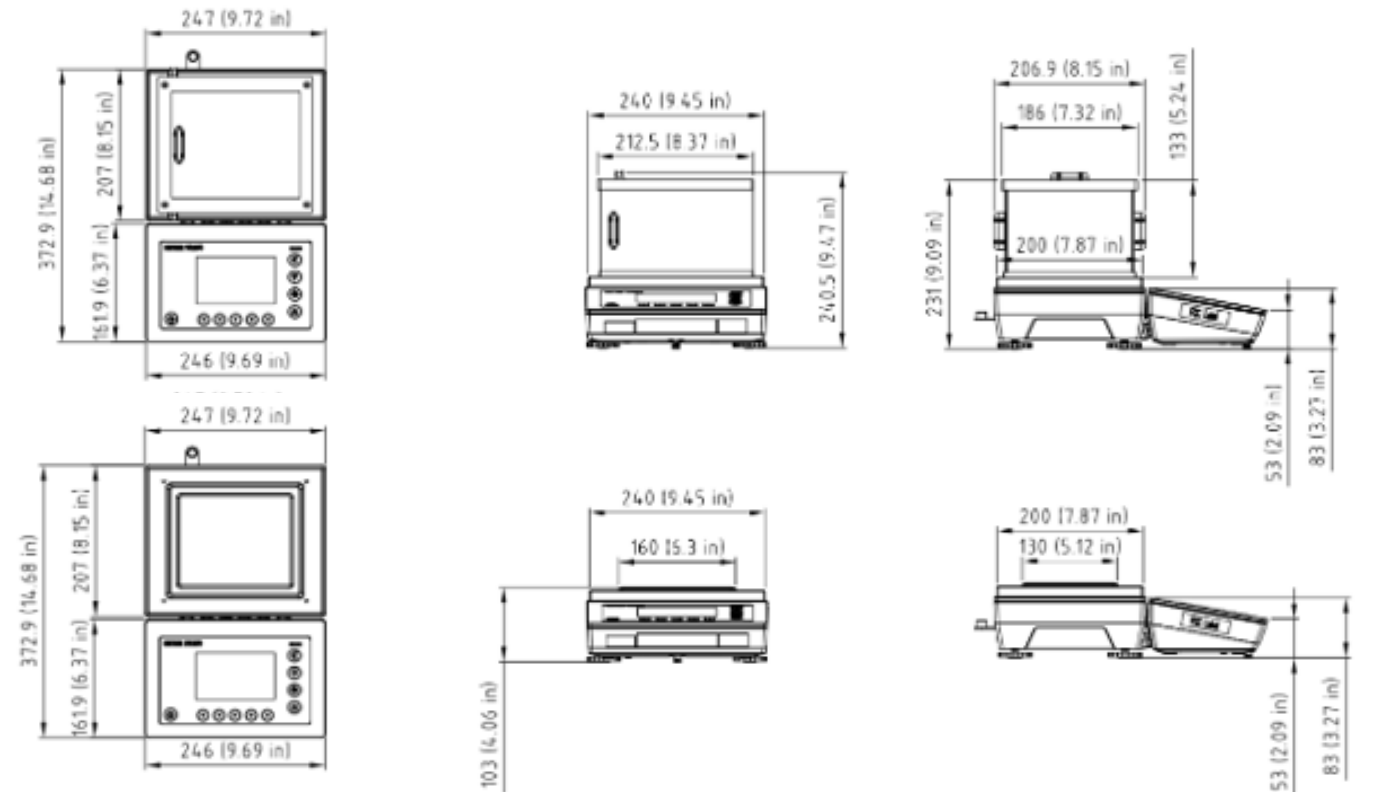
IND400 – Touchscreen Weighing Indicator

Specifications	
Enclosure Type and Dimensions	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	Aluminum die cast: IP65
Power	Wide range power supply: 100 - 240 VAC 50/60 Hz Optional lithium battery: 12V / 2.5A
Supported Scale Types	1 scale interface for Digital (SICSpro) platform
Update Rates	SICSpro: 50 Hz
Applications	Basic weighing, counting, over/under checkweighing, animal weighing, manual filling, totalizing, classification, data integrity, remote SQC to FreeWeigh™
Optional Interfaces	Aluminum die cast 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	Digital: SICSpro USA: NTEP Class II 100,000d; Class III/IIIL 10,000d Canada: Class II 100,000d; Class III 10,000d; Class IIILHD, 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

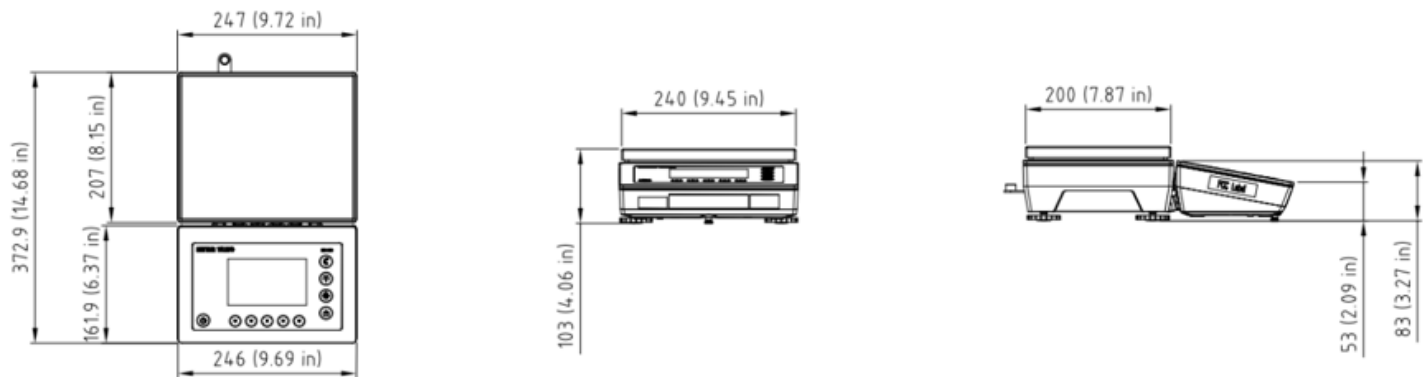
Technical Specifications

BBD555-400 and BBK785-400 Bench Scale Dimensions in mm (inch)

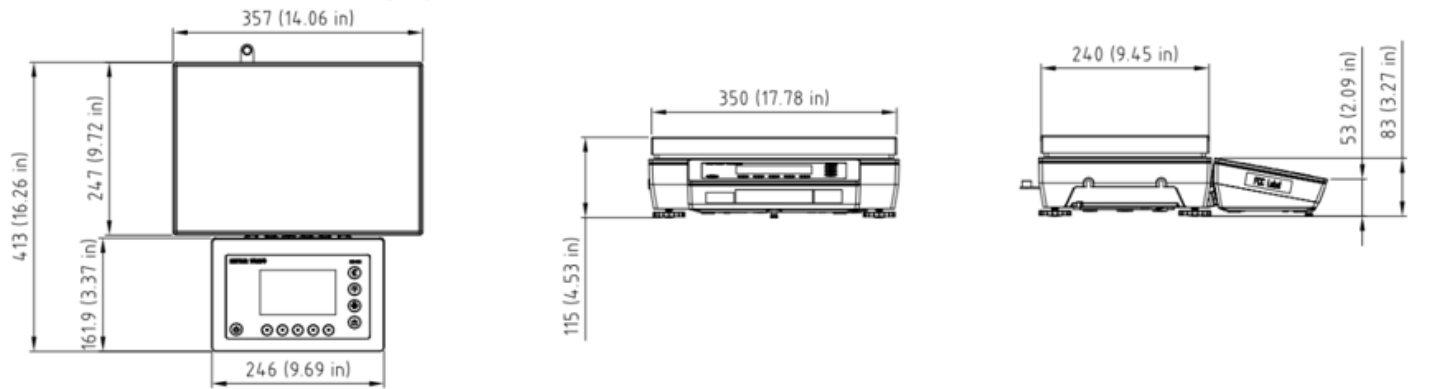
XS (BBK785 only, shown with and without wind shield)



SM



LA



Accessories

BBD555-400 and BBK785-400

PBK785		
72262929	Wind Shield	Wind Shield for XS size platforms
IND400 Brackets		
30978548	Bracket Kit for Column and Wall	
IND400 Communication Cable		
30978549	Cable M12 8P RS232 DB9F 3 m Kit	RS232 DB9 Female
30978550	Cable M12 6P RS485 Open 3 m Kit	RS485 Open
30978551	Cable M12 4P Eth RJ45 Male 5 m Kit	Ethernet RJ45 Male
30978552	Cable M12 12P DIO Open 10 m Kit	Digital I/O Open
30978553	Cable M12 5P USBA Female 0.2 m Kit	USB A Female
30978554	Cable M12 5P USBA Plug 1.5 m Kit	USB A Plug
31033700	Cable M12 5P RS232 PQ16 3 m Kit	RS232 PQ16
31033701	Cable M12 8P RS232 DB9M 3 m Kit	RS232 DB9 Male
App Upgrade License		
30876380	License Alibi Option Kit	
30876381	License Multi App Option Kit	
30876383	License DI Option Kit	
30876385	License Upgrade Kit Multi App	
30876387	License Upgrade Kit DI	
30876388	License Modbus RTU Option Kit	
30876389	License Modbus TCP Option Kit	
Others		
30978562	PET Touch Screen Cover Kit IND400 Stainless	
Printers and Peripherals		
30674166	APR320 Ticket Printer	Dot Matrix printer that uses continuous paper
30452312	APR331 SS Label Printer	Direct Thermal continuous label paper
30722021	APR430 Label Printer	203dpi DT or TT customizable label printer
30722022	APR530 Label Printer	300dpi DT or TT customizable label printer
30385723	ACM360-M1 Bluetooth Adaptor	Wireless alternative to cables
Scoreboards		
30184355	ADI150	Wired serial connection
30998770	ADI200	2" Display
30998772	ADI500	5" Display
30998775	ADI800	8" Display

Accessories Complete the Full Solution

For best performance and data traceability, accessories are a great place to start!



Additional Documentation



BBD555 / BBK785
For additional technical specifications, legal-for-trade information, or installation and operation instructions, please refer to the detailed product documentation linked below.

► www.mt.com/BBD555-BBK785-downloads



IND400
For additional technical specifications, legal-for-trade information, or installation and operation instructions, please refer to the detailed product documentation linked below.

► www.mt.com/IND400-downloads

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/BBD555-BBK785

For more information

METTLER TOLEDO Group

Industrial Division

Local contact: www.mt.com/contacts

Subject to technical changes

©04/2026 METTLER TOLEDO. All rights reserved

Document No. 30656391 A

MarCom Industrial (SD)

