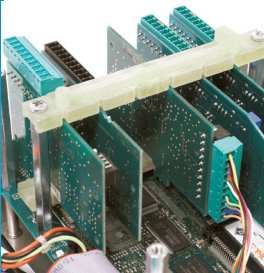


## Power and performance for advanced weighing applications



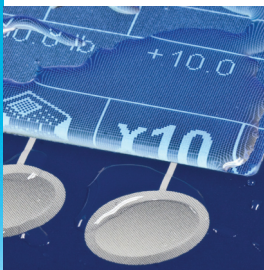
### Graphics display with SmartTrac™

Optimize the amount of visible process information with the QVGA graphical LCD display in Active TFT Color. This helps to reduce operational errors and improves productivity.



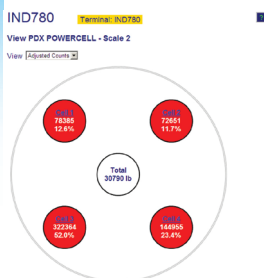
### Multitude of scale and communication interfaces

Various connectivity options for different scale interface technologies, PLC interfaces, Serial interfaces and Ethernet communication increases flexibility in meeting a combination of measurement and data integration requirements.



### Stainless Steel Enclosure

Wall/Desk Mount enclosure style with IP69K rating ideal for pressurized cleaning and heavy washdown in food and pharmaceutical manufacturing environments.



### Predictive Maintenance and Diagnostics

Embedded predictive maintenance and diagnostics tools such as scale and load cell condition monitoring, calibration management, web server, error logs and email alerts. Combine with POWERCELL® PDX® digital load cells to deliver state-of-the-art diagnostic capabilities that include network health monitoring, temperature measurements and cell enclosure breach detection.



### IND780 Industrial Terminal

The IND780 is a terminal whose flexibility of configuration and fast multi-task processing makes it the perfect match for a wide range of specific applications. It features connectivity for multiple sensor technologies, networking, PLCs, and much more, and it also provides a platform for solutions that can be customized using the terminal's basic functionality, optional applications, or the TaskExpert™ programming tool.

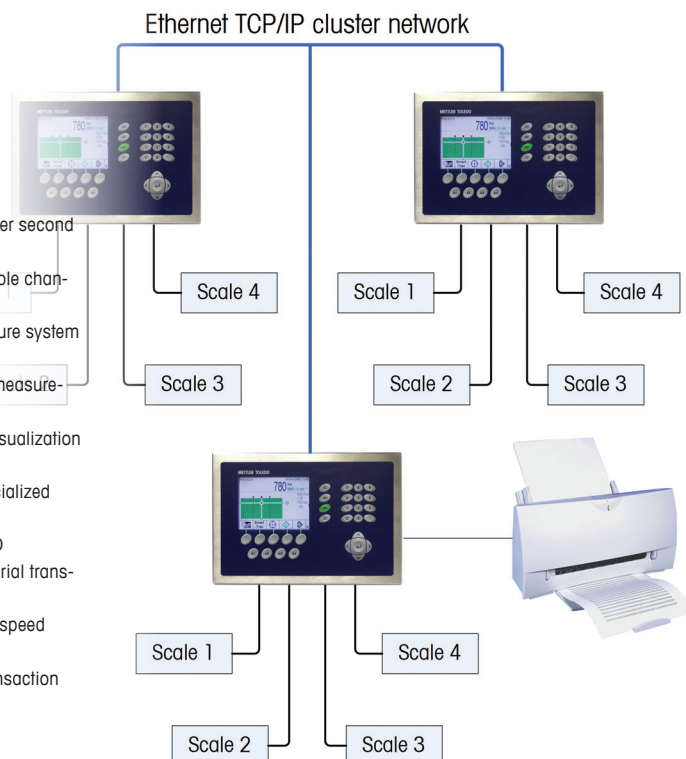
## Technical data

# IND780

## High performance weighing terminal

### Features and Benefits

- Superior weighing performance with 1,000,000 internal counts of resolution at 366 A/D updates per second
- TraxDSP™ tunable digital filtering minimizes environmental effects on weighing accuracy
- Concurrent monitoring and control of four independent measurement channels with single or multiple channel displays of weight for higher productivity
- With POWERCELL® PDX® digital load cells, enhanced predictive maintenance and diagnostics ensure system reliability, minimize downtime, and help prevent unexpected breakdowns
- Metrologically approved Sum Scale channel allows individual selection of up to four channels for measurement summing
- Selectable SmartTRAC™ display suited for over/under checkweighing or material transfer process visualization
- CalFREE™ functionality allows for quick and easy calibration without test weights
- TaskExpert™ software development platform provides flexible terminal customization to meet specialized application needs
- Tare table stores hundreds of tares with IDs and descriptions, and includes totalization by record ID
- Target table stores hundreds of targets with IDs, descriptions and tolerances for over/under or material transfer applications
- Material Transfer controls with latched or coincidence target comparison outputs for single or dual speed control
- Internal alibi memory with access to up to 256,000 transaction records, searchable by date or transaction number
- Terminal clustering functionality facilitates remote terminal operation in an Ethernet LAN



<b>Enclosure Dimensions (L x W x D) and type</b>	Panel mount: 220 x 320 x 105 mm (8.7 x 12.6 x 4.1 in.), stainless steel front panel, certified Type 4x/12 Harsh environment/desk/wall/column mount: 200 x 299 x 235 mm (7.8 x 11.8 x 9.3 in.), stainless steel, IP69K certified
<b>Keypad</b>	30-key tactile keyboard with numeric keypad, navigation keys, function keys, softkeys and application keys
<b>Display</b>	Backlit LCD graphic display; 320 x 240 pixels; QVGA, 145 mm (5.7 in.) diagonal; active TFT color
<b>Shipping weight</b>	5 kg (11 lbs)
<b>Power</b>	Universal power supply; 100 to 240 VAC at 49 to 61 Hz, 400 mA consumption
<b>Scale types</b>	Analog scale: 10 VDC excitation, powers up to (8) 350Ω load cells, 2 or 3 mV/V, per channel POWERCELL® MTX®, POWERCELL® PDX®, RAAD Box IDNet Scale: Pik-Brick and T-Brick bases for high precision weighing SICS Scale (4 series, Excellence balances, X-Base, WM/WMH)
<b>Update rates</b>	A/D of 366 Hz, Target (setpoint) of 50 Hz, PLC interface up to 20 Hz, Serial up to 20 Hz
<b>Standard Connectivity</b>	(1) RS-232, (1) RS-232/422/485; Ethernet 10/100 Base-T; USB Master (external keyboard)
<b>Communication Protocols</b>	Inputs: ASCII commands for Clear, Tare, Print, Zero; barcode; keyboard; SICS level 0 and partial level 1 Outputs: METTLER TOLEDO continuous or Demand with up to 10 configurable templates; Continuous template, report printing; interfaces external ARM100 Input/Output module and DeviceNet Bridge (DNB)
<b>Operating environment</b>	-10°C to 40°C (14°F to 104°F), 10% to 95% relative humidity, non-condensing
<b>Weights and Measures approvals</b>	USA: Class II 100,000d; Class III/IIIL 10,000d; CoC 06-017 Canada: Class II 100,000d; Class III/IIILD 10,000d/20,000d; CoC #AM-5592 Europe: Class II depends on platform base; Class III, IIII 10,000e; TC6944 Catchweighing - T10232; Gravimetric Filling - T10233
<b>Safety approvals</b>	cUL, UL, CE
<b>Hazardous approvals</b>	IECEx UL 10.0014X EX nA nL (nL) IIB T4 Ex tc IIIC T85°C Dc IP69K (Harsh) or IP65 (Panel) -10°C ≤ T amb ≤ +40°C
<b>Communication interface options</b>	PLC (one option only): Analog Output, Allen Bradley® RIO, ControlNet™, Profibus™ DP, EtherNet/IP™, DeviceNet™, Modbus TCP
<b>Digital I/O options</b>	Discrete I/O: Maximum of 40 inputs, 56 outputs Local (Relay or Solid State): One or two modules, each with 4 inputs, external sink 5-30 VDC; 4 outputs @ 30 VAC/VDC, 1 A max. Remote: Up to (8) ARM100 I/O modules, 4 in/6 out @ 60 VDC/250 VAC, 1 A max.

## METTLER TOLEDO Service

### Essential Services for Dependable Performance

METTLER TOLEDO is uniquely qualified to provide the installation, calibration and maintenance services essential to ensuring accuracy, optimizing uptime and prolonging equipment life. Our service representatives will be there at the right time, with the right parts, the right tools and the right skills to meet your needs.

[www.mt.com/IND7xx](http://www.mt.com/IND7xx) for more information



Subject to technical changes  
INDB0014.11E  
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