Uncompromised weighing

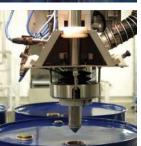
in hazardous areas



Increase speed

The IND560x features an ultra-fast A/D conversion rate. With TraxDSP™ tunable digital filtering to suppress environmental effects on weighing accuracy, enjoy precise, repeatable measurements from milligrams to tons.





Control process

Internal discrete I/O options establish direct control of automatic and semi-automatic processes fully within hazardous areas.





Connect easily

Fast PLC integration and network access into the hazardous area available via the ACM500 communication module.









Weigh intuitively

SmartTrac™ graphical display, operator prompting and one-touch access to terminal features through softkeys, work to improve productivity and minimize errors.

IND560x Terminal

The intrinsically safe IND560x weighing terminal brings uncompromising power and versatility into Division 1, Zone 1 and Zone 21 classified areas. Choose from analog or digital weighing technologies and communicate via serial, Ethernet and a variety of PLC interfaces. Easily program the feature-rich IND560x or create custom software applications. Whatever the need, the IND560x is the perfect solution for hazardous area weighing.

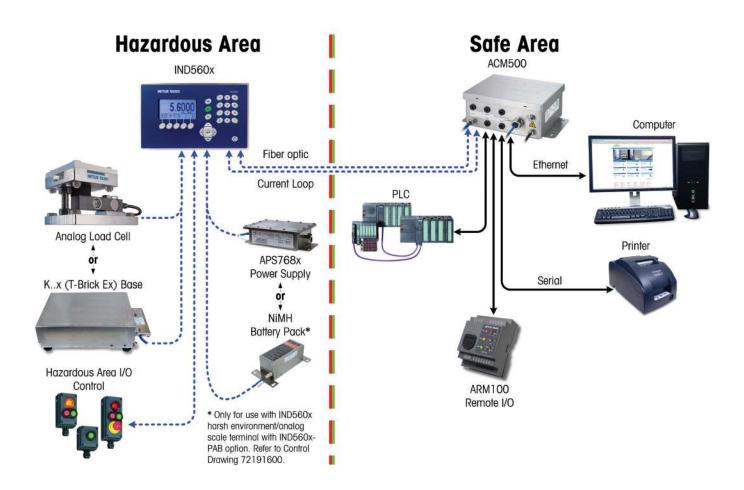


IND560x terminal





- Intrinsically safe design means no barriers or enclosures required when placing terminal in hazardous areas classified Zone 1, Zone 21 or Division 1
- Mobile weighing available when harsh/analog enclosure model is used with the IND560x-PAB (Power Adapter Board) and available external NiMH battery pack
- TraxEMT™ (Embedded Maintenance Technician) automatically logs critical system information to aid with stringent process validation requirements and compliance to regulatory controls. Built in diagnostic tests improve serviceability
- ACM500 safe area communication module supports a variety of PLC interfaces along with Ethernet and serial ports, allowing for easy integration of the IND560x into facility networks and broader control systems
- Reduce installation costs by utilizing the ACM200 communication module when only serial communication to the safe area is required
- Communication hardware options include both current loop and fiber optics. Interface with legacy METTLER TOLEDO data converters is ensured, providing a clean migration path from legacy equipment
- 15 programmable softkeys help eliminate operation errors and increase productivity
- Easily accessed memory tables store target and tare records, eliminating the need for external data storage and improving process efficiency
- Programmable on-screen prompts guide operators consistently through complex operations, supporting facility SOPs and improving overall process quality
- Over/Under mode of operation is enhanced with graphical display and programmable I/O to clearly indicate transaction status
- Material Transfer mode supports latched target control I/O, making the IND560x an excellent hazardous area filling or dosing controller
- Optional application software modules add enhanced features when required:
 - Fill-560: Advanced filling and dosing
- Drive-560: Simple (In/Out) vehicle weighing
- COM-560: Support for legacy communication protocols TaskExpert™: To create custom applications



Technical Specifications

Enclosure dimensions	Panel mount: 160 x 265 x 92 mm (6.3 x 10.4 x 3.6 in.)		
(H x W x D)	Harsh environment/desk/wall: 170 x 289 x 183 mm (6.7 x 11.4 x 7.2 in.)		
Enclosure construction/	Panel mount: Stainless steel front panel, aluminum chassis. Certified IP65. Low profile front panel reduces contamination		
environmental protection	Harsh environment: Full stainless steel housing. Certified IP69k, IP65		
Operating environment	-10°C to 40°C (14°F to 104°F), 10% to 95% relative humidity, non-condensing		
Display	128 x 64 dot matrix Liquid Crystal Display with backlight standard. 21mm high weight display		
Power	Works with APS768x intrinsically safe power supply. 120 VAC and 240 VAC models available.		
	Harsh environment/analog model compatible with external NiMH battery pack, when optional IND560x-Power Adapter Board (PAB) is installed		
Keypad	Power on/off. Clear, Tare, Print, Zero. Numeric keys. Navigation keyset. 5 softkeys		
Scale types	Supports single scale interface: Analog scale, 5 VDC excitation, up to 4 x 350Ω load cells (87Ω minimum resistance), 2 or 3 mV/V,		
	100,000d maximum resolution		
	IDNet scale, high-precision TBrick-Ex bases or SICSpro scale, high-precision PBK9/PFK9 Category 2 (MPXI) Bases		
Calibration	Separate single-step Zero and Span, available 5-point linearity adjustment, step calibration or CalFREE™ (no test weights needed).		
	Program and save a 25-step calibration test sequence for guaranteed repeatability. Configurable calibration expiration and email alerts available		
Update Rates	A/D conversion ≤366 Hz. Target up to 50 Hz. PLC up to 20 Hz. Discrete I/O up to 25 Hz		
Serial connectivity	Standard: One standard intrinsically safe RS-232 port (COM1).		
	Optional COM4/COM5: Bi-directional, dual-channel fiber optic or intrinsically safe current loop interface for communication to safe area		
Peripheral	Fiber optic or current loop connection to ACM500 in safe area; Current loop connection to ACM200 in safe area; Fiber optic connection to legacy		
communication devices	devices METTLER TOLEDO fiber optic converter		
	Can operate as a remote display for other terminals in Ex or safe area		
Supported	Serial (RS-232/422/485), Ethernet 10 Base-T, PLC (A-B RIO, Analog Output, DeviceNet, PROFIBUS DP, EtherNet/IP, Modbus TCP)		
communication*	Inputs: ASCIII, CPTZ, SICS Level 0/1, Remote display Outputs: METTLER TOLEDO Continuous, Demand, Continuous template, 5 configurable templates * Some communication options only available with ACM500		
1/0	Internal solid state discrete I/O options offer a total of 4 inputs and 6 outputs. Choose from one of three options: Active Inputs/Active Outputs,		
	Active Inputs/Passive Outputs, Passive Inputs/Passive Outputs		
	- Active Inputs are powered internally by the IND560x and are designed for use with simple hazardous area switches		
	- Active Outputs are powered internally by the IND560x and provide 12 VDC switching at 50 mA total. These are intended for use with low-power,		
	intrinsically safe solenoids		
	- Passive Inputs and Passive Outputs require power to be provided externally through an appropriate barrier. Entity parameters must be confirmed Total I/O control expandable to 12 inputs and 18 outputs using ARM100 modules and RS-485 from the ACM500		
Fix annualis			
Ex approvals	US: IS, Class I, II, III; Div 1; Groups A-G T4 Ta = -10° C to $+40^{\circ}$ C;	ATEX: Certificate BVS 09 ATEX E 010	IECEX Certificate IECEX BVS 10.0096X
	IP65; Type 4	and supplement 2	Ex ib [op is Go] IIC T4 Gb
	I/1/AEx ib IIC T4 Control drawing 72191600	II 2 G Ex ib [op is Ga] IIC T4 Gb II 2 D Ex ib [op is Da] IIC T60°C Db	Ex ib [op is Da] IIIC T60°C Db IP65
	Canada: IS, Class I, II, III; Div 1; Groups A-G T4 Ta = -10°C to	11 2 D EX 10 [00 15 Dd] 11C 100 C D0	1600
	+40°C; IP65; Control drawing 72191600	IF 05	
Weights and measures	USA: Class II, 100,000d; Class III/IIIL, 10,000d; CoC #05-0572A4		
approvals	Canada: Class II, 100,000d; Class III, 10,000d; Class IIIHD, 20,000d; AM-5593 Rev 3		
-FF1410	Europe: Class II, resolution determined by platform approval; Class III, 10,000e; TC6812 Rev 15		
	MID: Catchweighing – T10230; Gravimetric Filling – T10231		
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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.



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www.mt.com/IND560x_

for more information