

Intrinsically Safe Weighing in Classified Hazardous Areas



Safe and Economical

The IND256x is a cost effective weighing terminal for basic and checkweighing operations. Using intrinsically safe circuitry and increased safety elements, the IND256x delivers safe weighing in classified hazardous areas covered by ATEX and IECEx regulations.



Faster Installation

Reduce installation time by as much as half when connecting power lines directly from the power mains to the IND256x's internal power supply. Select AC or DC power input to match local site preference. Eliminate communication cabling costs with WiFi.



Reduce Maintenance Cost

Reduce total maintenance cost up to 60% compared to flame and explosion-proof solutions by choosing intrinsic safety (I.S.) method of protection. The IND256x's I.S. circuitry assures safety over multiple maintenance cycles beyond commissioning.



I.S. Wireless Communication

Simplify data transfer from fixed and mobile installations from within hazardous locations using IND256x terminals configured with I.S. WiFi. The integral design of the WiFi module eliminates cabling complexity.



IND256x Terminal Cost-Effective and Site-Friendly

Designed to operate safely in environments with explosive gases or dusts, the economical IND256x meets ATEX and IECEx hazardous area approvals.

- Simple installation with direct connection to AC or DC mains
- Easy scale mobility using external NiMH battery
- Simplified data transfer using intrinsically secure WiFi
- Flexible workplace location thanks to WiFi connectivity
- Easy cleanability and protection against corrosion and ingress for most industrial environments

Technical Specifications, IND256x

Dimensions (HxWxD)	173 mm × 230 mm × 127 mm (6.8 in. × 9.1 in. × 5.0 in.)			
Construction	AISI 304 Stainless Steel			
Power	AC: 187 - 250 VAC			
	DC: 18 - 30 VDC			
	Battery: External NiMH, charged in safe area. External charger sold separately.			
Mounting	Desk, wall or column			
Storage Environment	Storage temperature range: -20°C to 60° C (-4° to 140°F). Relative humidity: 10% to 95%, non-condensing			
Service Environment	Operating temperature range: -10°C to 40° C (14° to 104°F). Relative humidity: 10% to 95%, non-condensing			
Protection	IP66			
Display	240 x 96 pixel white backlit LCD, 25mm high digits. Display update rate: 10 Hz			
Weight Display	Maximum 100,000 divisions			
Scale Interface	Analog, 4 x 350Ω, 2-3 mV/V			
Weight Update Rate	>366 Hz			
Load Cell Excitation	4.5 VDC			
Keypad	26 keys; 1.5mm thick membrane keyboard			
Alibi Memory	Storage for up to 60,000 records			
Communication	Standard	One intrinsically safe RS-232 interface included on mainboard		
	Interface Options	Intrinsically safe Analog Output: 16-bit D/A conversion with 25 Hz update rate to PLC, or Intrinsically safe active current loop, or Intrinsically safe passive current loop		
	Protocols	Serial port input: ASCII commands - CTPZ (Clear, Tare, Print, Zero), SICS commands (supports SICS levels 0 and 1)		
		Serial port output: Toledo continuous output, demand print output (5 configurable templates), SICS responses and report print		
Metrology	Europe: OIML R76; Class III, 6000e; TC10878 Global: OIML R76; Class III, 6000e; R76-2006-A-NL1-18.27			
Approvals	ATEX/IECEX	Non Wi-Fi version	AC and DC version: II 2G Ex eb ib [ib] mb IIC T4 Gb II 2D Ex tb [ib] IIIC T60°C Db -10°C ≤ Ta ≤ +40°C	Battery version: II 2G Ex ib IIC T4 Gb II 2D Ex tb [ib] IIIC T60°C Db -10°C ≤ Ta ≤ +40°C
		Factory-configured WiFi version	AC and DC version: II 2G Ex eb ib [ib] mb IIB T4 Gb II 2D Ex tb [ib] IIIC T60°C Db -10°C ≤ Ta ≤ +40°C	Battery version: II 2G Ex ib IIB T4 Gb II 2D Ex tb [ib] IIIC T60°C Db -10°C ≤ Ta ≤ +40°C
	ATEX Cert. No.: IECEX Cert. No.:		BVS 17 ATEX E 076 X IECEX BVS 17.0064X	

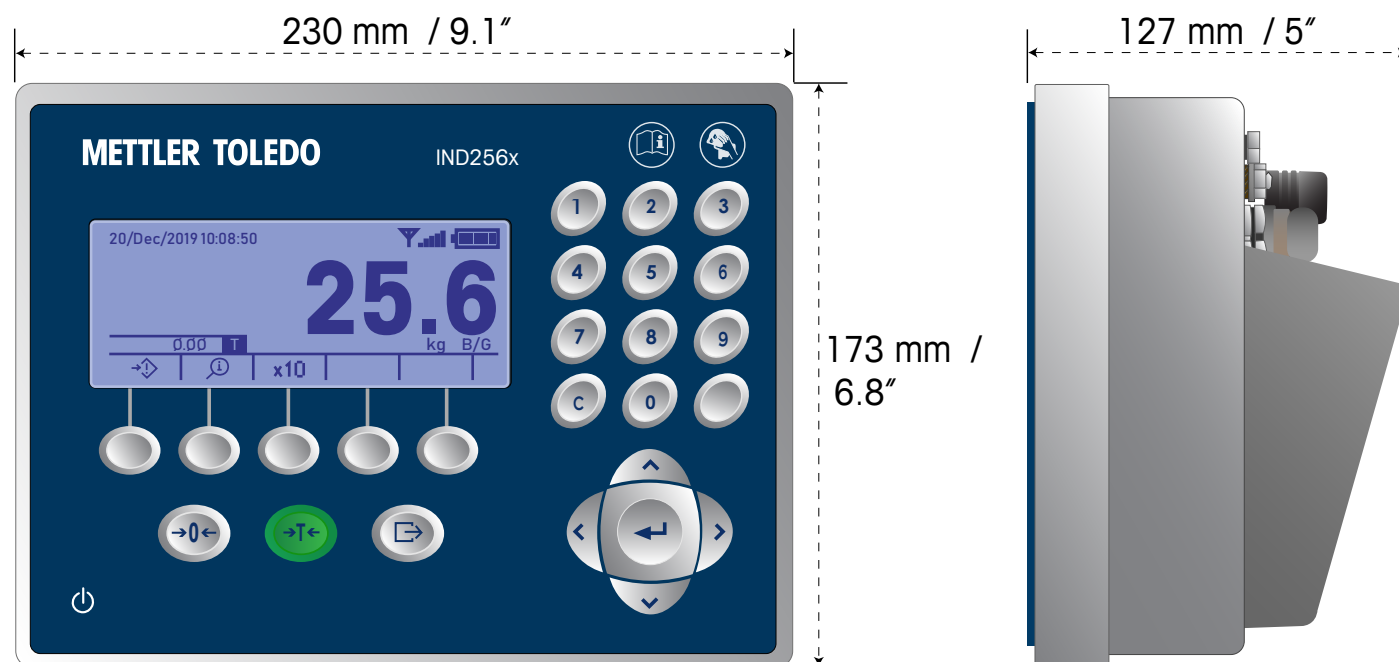
WiFi Specification

Installation	Available only as factory-installed module		
Standard	802.11 b/g/n		
Max Ave. RF output	14 dBm		
RF Frequency Range	2.412 GHz - 2.462 GHz		
Encryption	WEP-PSK/WPA2-PSK, WEP		
Protocol	TCP/IP		
Work Mode	Server (only valid via Port 1701), Client		
Transmitting distance	Max 40 meters in open air; typical 20 meters with limited obstruction		
Radio Approval	Europe: CE/EMC+CE/RED	China: SRRC	US: FCC

Technical Specifications, Battery

Enclosure Type	Stainless steel enclosure with built-in mounting bracket and nickel plated connector. The stainless steel contains less than 7.5% magnesium.
Dimensions (l x w x d)	236 mm x 133 mm x 76 mm (9.3 in. x 5.3 in. x 3.0 in.)
Shipping Weight	4.0 kg (8.7 lb)
Environmental Protection	Provides IP66 protection—comparable to Type 4x sealing. Connector has IP67 rating.
Operating Environment	Can be operated at temperatures ranging from -10° to 40° C (14° to 104° F) at 10% to 95% relative humidity non-condensing.
Type	Consists of eight NiMH battery cells in an encapsulated pack for a total power of 8Ah.
Charging Time (est.)	11 hours
Operating Time (est.)	1 load cell: 30-60 hours 4 load cells: 25-35 hours
Output Power	Output voltage 7.5 to 10 VDC nominal @ 130mA minimum (170mA minimum for IDNet) to 3 A maximum. Cable not designed to be extended.
Hazardous Area Approvals	II 2 G Ex ib IIC T4 Gb II 2 D Ex ib IIIC T111°C Db -10°C ≤ Ta ≤ +40°C ATEX Cert. No.: FM19ATEX0216X IECEx Cert. No.: IECEx FMG 19.0046X

Dimensions



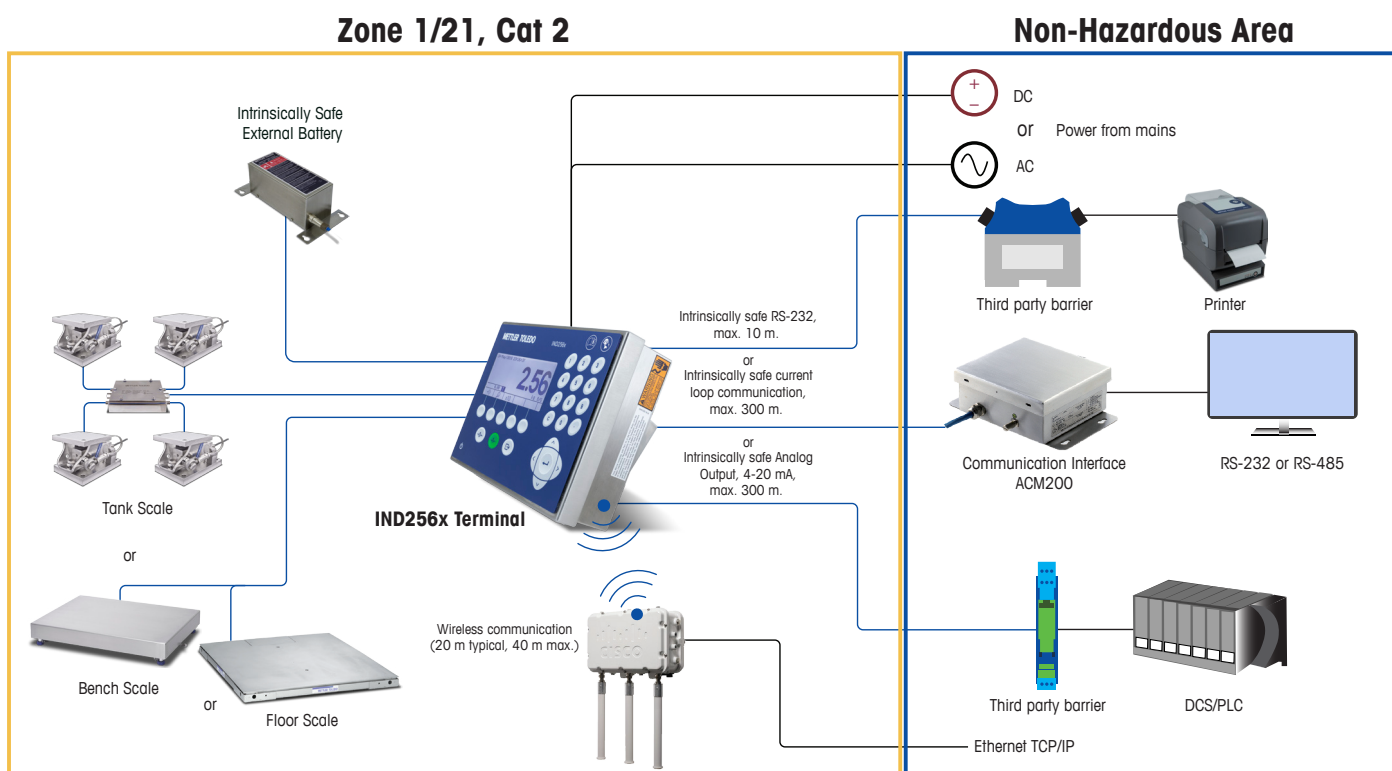
Utility

Use IND256x File Transfer Tool to transfer and save transaction logs and upload Tare and Target tables. The File Transfer Tool is available for download at www.mt.com/IND256x.

Options and Accessories

30590909	IND256x Battery Kit (including cable, charger with Schuko plug)	30541569	IND256x Battery Charger with Australia plug
30590467	IND256x Battery Kit (including cable, charger with US plug)	30541570	IND256x Battery Charger with Japan plug
30590910	IND256x Battery Kit (including cable, charger with UK plug)	30538111	IND256x Battery Spare
30592070	IND256x Battery Kit (including cable, charger with Brazil plug)	30543268	IND256x Battery Cable Spare
30590911	IND256x Battery Kit (including cable, charger with Australia plug)	30516677	4-20 mA Analog Output Interface
30590912	IND256x Battery Kit (including cable, charger with Japan plug)	30344950	Active Current Loop Interface
30541517	IND256x Battery Charger with Schuko plug	30344951	Passive Current Loop Interface
30542935	IND256x Battery Charger with US plug	72188182	Wall-Mount Bracket (Fixed)
30541568	IND256x Battery Charger with UK plug	00504130	Wall-Mount Bracket (Adjustable)
30592071	IND256x Battery Charger with Brazil plug	72200039	Column-Mount Bracket

System Layout



www.mt.com/IND256x

For more information

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Subject to technical changes
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