three option slots that support PLC interfaces, network communication ports, and an array of digital I/O choices.

1.1. IND570 Overview

1.1.1. Versions

The IND570 is available in the following versions:

1.1.1.1. AC Powered Models (85-264VAC)

- Harsh enclosure with conventional analog load cell, high-precision IDNet or SICSpro platforms, or POWERCELL load cell connection
- Panel-mount enclosure with conventional analog load cell, high-precision IDNet or SICSpro platforms, or POWERCELL load cell connection

1.1.1.2. 24VDC Powered Models

- Panel-mount enclosure with either conventional analog load cell, high-precision IDNet or SICSpro load cell connection

1.1.2. Standard IND570 Features

- Basic weighing terminal for use in safe areas or Division 2 and Zone 2/22 areas (IND570xx versions) Panel-mount or harsh environment desk/wall/column-mount enclosures
- Connection for one scale:
    - Single analog load cell scale base
    - A network of up to **12** 350-ohm load cells (**8** for IND570xx)
    - Single high-precision IDNet or SICSpro base
    - A network of up to 14 POWERCELLs
- Multiple range and multiple interval weighing
- 256 x 128 dot-matrix graphic OLED display with 25 mm-high weight display
- Display, receipt and transmission of information in multiple languages
- USB host port for connection of external keyboard, USB memory device or barcode scanner (for use in safe area version only)
- One serial port (isolated in IND570 POWERCELL) for asynchronous, bidirectional communication and print output via RS-232, RS-422 or RS-485
- Second isolated serial port for RS-232 communication (IND570 POWERCELL only)
- Operation as a Remote Display for another METTLER TOLEDO terminal
- Real-time clock with battery backup
- Basic weighing functions including zero, tare, and printing
- Selectable over/under mode of operation for classifying

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- Selectable material transfer mode of operation for simple filling or dosing
- Additional graphic display options include SmartTrac™, rate and discrete I/O status
- ID mode for prompted transaction sequencing and data collection
- Tracking of material delivery rate
- Comparators – simple coincidence set points for comparison of weight or rate with absolute target values or ranges
- Two standard memory tables for Tare and Target storage – 99 Tare records and 200 Target records
- Unit switching between three different units, including a custom unit
- Alibi memory storage for up to 100,000 records
- Grand total and subtotal registers for accumulating weight
- Ten customizable print templates
- Report printing
- TraxDSP™ digital filtering for analog load cells
- TraxEMT™ performance monitoring and recording
- CalFree™ calibration without test weights
- Routine verification of system accuracy by utilizing Test Manager GWP® (Good Weighing Practice)
- MinWeigh™ to eliminate measurement uncertainties
- Support for the following communication options:
  - Ethernet TCP/IP
  - Additional serial ports, COM2 and COM3
  - Solid State or relay based discrete I/O interfaces
  - Analog output
  - ControlNet
  - DeviceNet™
  - EtherNet/IP
  - Modbus TCP
  - PROFIBUS® DP
  - PROFINET® (not available for IND570xx)
- Support for the following optional Application Software Modules:

  Fill-570 Drive-570 COM-570

- Support for TaskExpert™ custom application development software

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1.2. Specifications

The IND570 terminal conforms to the specifications listed in Table 1-1.

Table 1-1: IND570 Specifications

IND570 Specifications	
Enclosure Types	Panel-mount stainless steel front panel with an aluminum frame
	Harsh environment desk/wall/column-mount type 304L stainless steel enclosure
Dimensions (l × w × d)	Panel Mount: 265 mm × 160 mm × 66.5 mm (10.4 in. × 6.3 in. × 2.6 in.)
	Harsh Environment: 265 mm × 148.4 mm × 163 mm (10.4 in. × 5.8 in. × 6.4 in.)
Shipping Weight	3.2 kg (7 lb)
Environmental Protection	Panel-mount front panel sealing is UL-approved and certified to IP65, type 4x and type 12
	IND570 Harsh Environment model: UL-approved and certified to IP69K. IND570xx: IP65.
Operating Environment	All terminal types can be operated at temperatures ranging from –10° to 40° C (14° to 104° F) at 10% to 95% relative humidity non-condensing
Hazardous Areas	**Only** the IND570xx version is certified for use in environments classified as Division 2 or Zone 2/22 because of the combustible or explosive atmospheres in those areas.
AC Input Power (Harsh and panel-mount models)	Operates at 85–264 VAC, 49–61 Hz, 750 mA
	Panel-mount version provides a terminal strip for AC power connections.
	Harsh environment version includes a power cord configured for the country of use. The IND570xx version provides conduit hubs and no power cord for Canadian and US approved applications, and an open-ended power cord for ATEX and IECEx approved applications.
	Note: When an IND570xx is installed in an area classified as Division 2 or Zone 2/22, special AC wiring requirements must be met. Refer to document 30205321
DC Input Power (Panel-mount models only; not for POWERCELL model)	Operates at 24 VDC, -15% - +20%, 1.25A
	Provides a terminal strip for DC power connections
	24VDC input power option not available on the harsh models

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IND570 Specifications	
Scale Types & Update Rates	Analog load cells, up to twelve 350-ohm load cells (eight for IND570xx) (2 or 3 mV/V). Update rate > 366 Hz. or IDNet High-Precision Line (+12V versions only, including T-Brick cell, M-Cell, Point-ADC). Update rate determined by IDNet base. or SICSpro High-precision platforms that include Advanced Setup Mode. Update rate approximately 50 Hz. or Up to 14 POWERCELL load cells. Update rate selectable up to 50 Hz.
Analog Load Cell Excitation Voltage	10 VDC
Minimum Sensitivity	0.1 microvolts
Interface and Function Update Rates (max) – Analog terminal versions	Weight display: 10 Hz Internal discrete I/O: 50 Hz External discrete I/O (ARM100): 25 Hz PLC cyclic data: 25 Hz SICS continuous (SIR): 20 Hz MT Continuous Output: 20 Hz Continuous Template (serial): 20 Hz (19.2-115.2Kbaud), 14 Hz (9600 baud) Continuous Template (Eprint): 10 Hz
Interface and Function Update Rates (max) – IDNet terminal versions	Weight display: 10 Hz Internal discrete I/O: 20 Hz External discrete I/O (ARM100): 20 Hz PLC cyclic data: 20 Hz SICS continuous (SIR): 20 Hz MT Continuous Output: 20 Hz Continuous Template (serial): 20 Hz (19.2-115.2Kbaud), 14 Hz (9600 baud) Continuous Template (Eprint): 10 Hz
Interface and Function Update Rates (max) – SICSpro terminal versions	Weight display: 10 Hz Internal discrete I/O: 50 Hz External discrete I/O (ARM100): 25 Hz PLC cyclic data: 25 Hz SICS continuous (SIR): 20 Hz MT Continuous Output: 20 Hz Continuous Template (serial): 20 Hz (19.2-115.2Kbaud), 14 Hz (9600 baud) Continuous Template (Eprint): 10 Hz

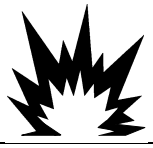
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IND570 Specifications	
Interface and Function Update Rates (max) – POWERCELL terminal versions	Weight display: 10 Hz Internal discrete I/O: 50 Hz External discrete I/O (ARM100): 25 Hz PLC cyclic data: 20 Hz SICS continuous (SIR): 20 Hz (15 Hz when update rate is 15 Hz) MT Continuous Output: 20 Hz (15 Hz when update rate is 15 Hz) Continuous Template (serial): 20 Hz (19.2-115.2Kbaud), 14 Hz (9600 baud) (15 Hz when update rate is 15 Hz) Continuous Template (Eprint): 10 Hz
Keypad	26 keys; 1.22-mm thick polyester overlay (PET) with polycarbonate display lens. IND570xx version provides an additional 1-mm thick clear polyester overlay (PET) in front of the polycarbonate display lens
Communication	**Standard Interfaces** Serial Port: COM1 (RS-232/RS-422/RS-485), 300 to 115,200 baud (isolated, in POWERCELL model) Serial Port: COM4 (POWERCELL model only) RS-232, 300 to 115,200 baud USB Host Port: Type A connector, +5V at 100mA for connected devices (not certified for use in hazardous areas) **Optional Interfaces** Ethernet Port: Ethernet 10 base-T / 100 base TX COM2 serial port: RS-232, 300 to 115,200 baud COM3 serial port: RS-232/RS-422/RS-485, 300 to 115,200 baud **Supported Protocols** USB Inputs: ASCII characters (barcode, keyboard), on-demand file import USB Outputs: Demand output, Report printing, on-demand file export Serial Inputs: ASCII characters, ASCII commands for CTPZ (Clear, Tare, Print, Zero), SICS (level 0 and level 1, some support for level 2 commands), Remote Display, Shared Data Server access Serial Outputs: Continuous and Demand outputs, SICS host protocol, report printing, interfaces with external ARM100 Remote Input/Output modules. Optional COM-570 Application Software available for legacy serial protocols. Ethernet Inputs: ASCII commands for CTPZ (Clear, Tare, Print, Zero), SICS (level 0 and level 1, some support for level 2 commands), Remote Display, Shared Data Server Access Ethernet Outputs: Continuous and Demand Outputs, report printing **PLC Interfaces** A single interface supported: Analog output, ControlNet, DeviceNet, EtherNet/IP, Modbus TCP, PROFIBUS DP, PROFINET (not available for IND570xx)

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IND570 Specifications	
Approvals	**Weights and Measures** USA: NTEP Class II 100,000d; Class III/IIIL 10,000d; CoC #13-123 Canada: Class II 100,000d; Class III 10,000d; Class IIIHD, 20,000d; AM-5933 Europe: OIML R76 Class II approved divisions determined by platform; Class III and IIII 10,000e; TC8458. MID R61 (Automatic Gravimetric Filling Instrument); T10610. MID R51 (Automatic Catchweigher); T10609. **Product Safety** UL, cUL, CE
	Hazardous Area US and Canada CL I, DIV 2, GP CD; CL II, DIV2, GP FG; CL III; CL I Zn 2 AEx / Ex ic nA [ic] IIB T5; Zn 22 AEx tc IIIC T85°C - 10°C ≤ Ta ≤ +40°C Temperature ID = T5 (100°C) — IP65 Europe II 3 G Ex ic nA [ic] IIB T5 Gc -10°C ≤ Ta ≤ +40°C II 3 D Ex tc IIIC T85°C Dc -10°C ≤ Ta ≤ +40°C — IP65 IECEx Ex ic nA [ic] IIB T5 Gc -10°C ≤ Ta ≤ +40°C Ex tc IIIC T85°C Dc -10°C ≤ Ta ≤ +40°C — IP65

1.3. Environmental Protection



⚠ WARNING

VERSIONS OF THE IND570 TERMINAL THAT ARE NOT FACTORY-LABELED AS DIVISION 2 OR ZONE 2/22 MUST NOT BE INSTALLED INTO A DIVISION 2 OR ZONE 2/22 ENVIRONMENT.



⚠ WARNING

THE IND570xx TERMINAL IS NOT INTRINSICALLY SAFE LEVEL "a" OR "b"! DO NOT USE WITHIN AREAS CLASSIFIED AS HAZARDOUS DIVISION 1 OR ZONE 0/1/20/21 BECAUSE OF COMBUSTIBLE OR EXPLOSIVE ATMOSPHERES. FAILURE TO COMPLY WITH THIS WARNING COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

When an approved version IND570xx is installed in an area classified as Division 2 or Zone 2/22, special AC wiring requirements must be met. Refer to document 30205321, **IND570xx Division 2, Zone 2/22 Installation Guide**.

1.4. Inspection and Contents Checklist

Verify the contents and inspect the package immediately upon delivery. If the shipping container is damaged, check for internal damage and file a freight claim with the carrier if necessary. If the

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container is not damaged, remove the IND570 terminal from its protective package, noting how it was packed, and inspect each component for damage.

If shipping the terminal is required, it is best to use the original shipping container. The IND570 terminal must be packed correctly to ensure its safe transportation.

The package should include:

- IND570 terminal
- Documentation CD (includes manuals, PLC sample codes, Quick Guide for users)
- Safety warnings in multiple languages
- Bag of parts for installation. Depending on terminal, may include ferrites, grommets, rubber feet, sealing gasket, etc.
- Fixed angle mounting brackets (harsh models only)
- European Certificate of Conformance (Europe only)
- Bag of ATEX certified glands for IND570xx harsh versions with ATEX/IECEx approval

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