Conveyor Scale Controller

for reliable in-motion weighing



High speed dynamic weighing

controller provides weights and measuresapproved weighing accuracy at conveyor speeds of up to 77 m/min (240 ft/min), allowing for use in high-volume transport and logistics application.



Data integration

allows for automatic integration of package-specific information such as bar code, RFID tag data, and dimensional data. Data communication to peripheral devices via serial, Ethernet and PLC interface is available.



Powerful data storage and communication

provides the ability to store hundreds of train reports in common database formats, allowing for simple export via Ethernet, fiber optic, modem or wireless connection.



Exceptional performance even in tough applications

with features such as advanced filtering, IP69k protection, chemical-resistant display and bright vacuum fluorescent display that is easily readable in low light conditions.





IND560dvn Terminal

The IND560dyn controller provides a robust and reliable interface to conveyor scales for in-motion weighing. Items can be weighed while crossing an analog load cell-based conveyor at speeds up to 100m/minute. Data from bar code scanners, RFID readers, or dimensioning equipment can be integrated with the IND560dyn to provide a complete transaction record. A target can be recalled and weights compared against target values to trigger an output or identify in the transaction record out of tolerance items. Optional Ethernet and PLC connectivity provides flexibility for interface to other control or data analysis equipment.



IND560dyn

Conveyor Scale Controller for in-motion weighing

Features and benefits

- High-speed A/D converter plus TraxDSP™ filtering achieves accurate weighments in the shortest possible time, even under adverse conditions with high vibration
- Flexible interface to peripheral data sources allows the use to integrate bar code and dimensional data with package weight into the transaction record. Input data string can be parsed automatically, allowing user customization
- Multiple connectivity options allow the user to communicate transaction data to a wide variety of Ethernet-enabled devices, and to communicate with automation equipment via DeviceNet™, A-B RIO or Profibus™ protocol
- Objects of analysis such as daily weighments, number of in-tolerance items weighed by product ID, error logging and tracking, can be recalled or exported to a PC-based application
- Optional LED status lights and rugged pushbuttons can be configured to provide operators with additional visual system status cues, minimizing confusion and increasing productivity
- 25-target ID memory with tolerance check allows user to program and monitor 3-zone toleranced ranges specific to each target ID. A discrete output can be configured for outof-tolerance weighments, to trigger reject timers
- Bright, multi-line VFD display ensures easily readable scale data and status information, error messages, last package average weight, and setup menu
- Three levels of configurable user names and passwords are supported, assuring security of setup and configuration parameters
- Error logging is configurable, to provide flexible handling of scale alarms and errors
- Weights and Measures approvals permit use in legal-for-trade applications



Enclosure dimensions (L x W x D)	IND560dyn terminal, panel mount: $265 \times 160 \times 91.8$ mm ($10.4 \times 6.3 \times 3.6$ in.) IND9D56 controller: $406.4 \times 406.4 \times 152.4$ mm ($16 \times 16 \times 6$ in.)
Shipping weight	IND560dyn terminal, panel mount: 3.5 kg (7.7 lb) IND9D56 controller: 14 kg (30 lb)
Enclosure construction/ environmental protection	IND560dyn terminal, panel mount: Stainless steel front panel, certified Type 4x/12 (ref. IP65) IND9D56 controller: CRS ANSI 61Gray, optional 304 stainless steel, certified IP54 Mounts to wall or a machine using integrated brackets
Display	Vacuum Fluorescent 128 x 64 dot graphical; 21mm high weight display
Power	Universal power supply, 87 to 264 VAC at 49 to 61Hz, 750 mA consumption maximum (IND560dyn terminal only)
Scale types	Analog scale: 10 VDC excitation interfaces to 4 350 Ω load cells, 2 or 3 mV/V
Keypad	5 programmable softkeys, 4 scale function keys, numeric keys, navigation keys
Photo-eye interface	Interface provided via connection within IND560dyn terminal to two external photo-eyes
Package throughput	Up to 130 ppm
Connectivity	Standard: COM1 - RS-232/422/485. Optional: 10Base-T Ethernet TCP/IP port; COM2: RS-232; COM3: RS-232/422/485
1/0	Four standard discrete inputs: entrance photo-eye, exit photo-eye, run permissive, silence alarm Six standard discrete outputs: scale running, scale empty, fatal error, non-fatal error, weighment complete, reject output Optional inputs: clear alarm, send weight data
Serial interface	Outputs: METTLER-TOLEDO Continuous or Demand; continuous template using 1 of 5 configurable templates
PLC optional interface	Allen-Bradley® Remote I/O, DeviceNet™, Profibus® L2 DP
Operating environment	-10°C to 40°C (14°F to 104°F), 10% to 95% relative humidity, non-condensing
Approvals	cUL, CE, 3000d, NTEP CoC # 05-065





Essential Services for Dependable Performance

meet your needs.

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





Quality certificate ISO9001 Environment certificate ISO14001 Internet: http://www.mt.com Worldwide service

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