

Conveyor Scale Controller for reliable in-motion weighing



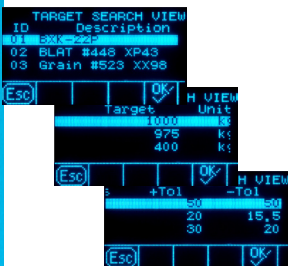
High speed dynamic weighing
controller provides weights and measures-
approved weighing accuracy at conveyor speeds
of up to 77 m/min (240 ft/min), allowing for use
in high-volume transport and logistics applica-
tion.



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



**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 dis-
play and bright vacuum fluorescent display
that is easily readable in low light con-
ditions.



IND560dyn Terminal

The IND560dyn controller provides a robust and reli-
able interface to conveyor scales for in-motion weigh-
ing. 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

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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 out-of-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

Technical Data

Enclosure dimensions (L x W x D)	IND560dyn terminal, panel mount: 265 x 160 x 91.8 mm (10.4 x 6.3 x 3.6 in.) IND9D56 controller: 406.4 x 406.4 x 152.4 mm (16 x 16 x 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 350Ω 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
I/O	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



ServiceXXL

Tailored Services

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.



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

INDB0052.1E
Subject to technical changes
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For more information