

# Specialty Chemicals

Industrial Weighing and Measuring



# 2 News

## Maximize Productivity, Reduce Process Costs

**From inbound through the manufacturing to the shipping docks, in harsh environments, in hazardous areas or in clean formulation rooms of your facility, there are numerous process steps where weighing accounts for the most reliable and accurate technology.**

At METTLER TOLEDO, we design solutions to optimize productivity throughout your value chain and ensure that the product quality meets your end-user's requirements.

This is the reason why the Antwerp Distribution and Product Operations (ADPO) has chosen a drumfilling solution from METTLER TOLEDO. ADPO offers services such as stainless steel filling lines for pails, drums and IBCs. Recently, ADPO expanded its existing infrastructure with a highly automated system for the storage and handling of chemicals to better serve customers like BASF, BAYER and Monsanto.

### **Minimize product losses during the filling process**

In one of their facilities, ADPO fills 200 liters drums at the rate of 100 drums per hour. To increase efficiency, the JagXtreme weighing indicator and 300kg high-precision floor scales are in use. This drum filling solution from METTLER TOLEDO is highly accurate, ensures fast material transfer and allows tracking and tracing of each drum. ADPO benefited by minimizing handling time, decreasing the risk of errors and product losses, thus reducing process costs and maximizing productivity.



Courtesy ADPO

**METTLER TOLEDO**

## With Fast and Precise Formulation Your Business Smells of Success!

Our customer is a leader in the creation and production of natural aromatic flavors, fine fragrances and perfumes. His story begins in 1850 and continues today with innovation, thus ensuring company's continued success and uniqueness. Our customer has chosen METTLER TOLEDO as his partner for providing technology and expertise for the accurate and reliable formulation of a wide range of flavors and fragrances.

The IND690xx indicator is connected with two high-precision balances for weighing the finest oils, refined powders and liquids. After identifying the raw material with a barcode reader, the operator selects the appropriate

balance and weighs the raw materials sequentially (vertical formulation). With the IND690 FormXP formula-weighing software Pac, up to 150 formulas and 500 components can be stored. Plus, the manufacturing is optimized by using the Fill software Pac. This speeds up the filling, batching and formulation processes, increases product quality and reduces costs generated by material waste or prolonged downtime.

Finally, to maximize traceability, every step of the process is documented. The PC software FormToolXP enables editing messages, components, and formula data. All relevant weighing data is recorded and a label is printed.

### Key Benefits

- Increased productivity due to reduction of process time and material waste
- Flexibility with software pacs to adapt easily to production changes
- Smooth data exchange between existing systems and weighing equipment



IND690xx

#### IND690xx

- Up to four scales/balances connectable
- IP69k protection and Big Weight® display
- Wide variety of software pacs such as Count, Form, Com, Sum, Fill, Batch, Control, FormXP
- Broad interface range available: Ethernet, WLAN, USB, Bluetooth®, Profibus® DP
- Material identification through barcode reader and RFID
- Hazardous area Zone 2/22 compliant

#### XP1203s and XP8002s precision balances

- Maximum capacity: 1210g and 8100g respectively
- Readability: 1mg and 10mg respectively
- High speed balance with overload protection
- proFACT internal calibration

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Barcode Reader



GA46 printer



XP8002s



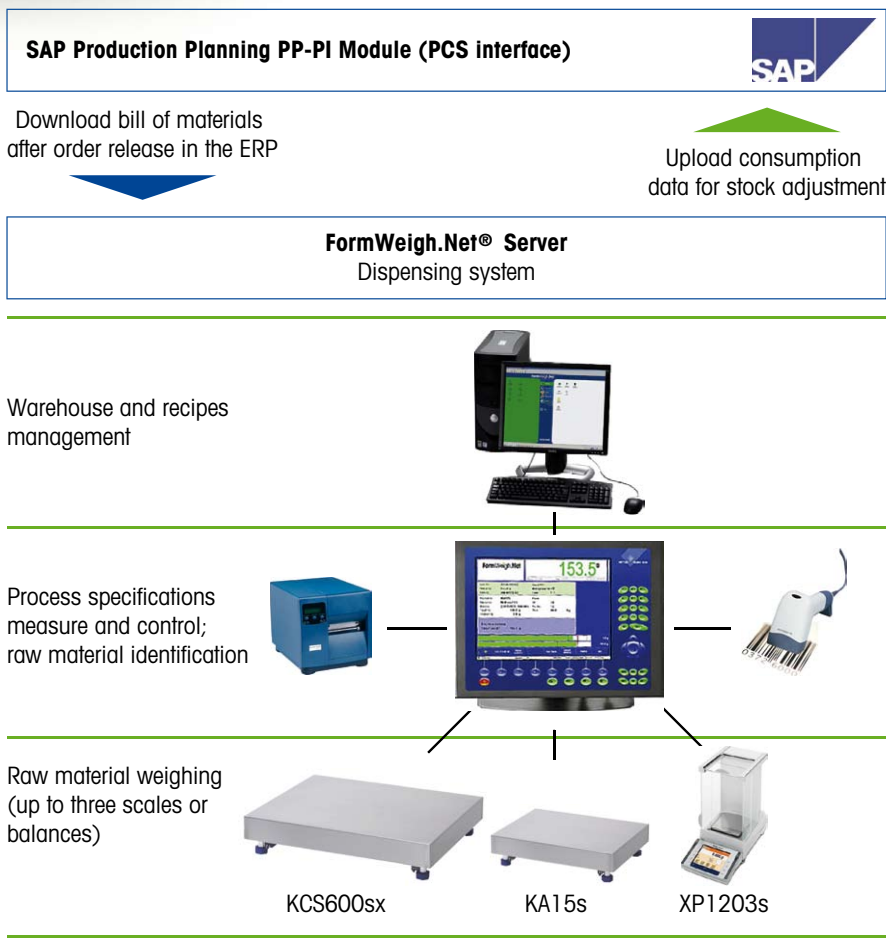
XP1203s



## Stand-alone or Integrated Solution? In-line with the Size of Your Business!

FormWeigh.Net® is a software-based formulation solution for batch manufacturing. It consists of a weighing terminal, a variety of weighing platforms, a barcode reader and a printer, and can be configured to match your

individual needs. The networked solution offers the advantages of central data management, full integration with your ERP system, and full traceable paper-free formulation.



# FormWeigh.Net

**Accuracy  
Reliability  
Compliance**

### KCS600sx precision floor scale

- Stainless steel platform
- Capacity: 600kg
- Approved readability: 0.1kg (max 0.01kg)
- Typical minimum weight: 0.2kg (for 5% tolerance)

### KA15s precision bench scale

- Stainless steel platform
- Capacity: 15kg
- Approved readability: 1g (max 0.1g)
- Typical minimum weight: 2g (for 5% tolerance)

# Turn Your Storage Tanks into a Long Lasting and Reliable Inventory Monitoring System

**Effective inventory control is a vital function to help insure the success of your production facility.**

A recent article in "The Manager" \* states that "in virtually all manufacturing companies, there is a direct correlation between inventory levels and overall business performance. Very often CEO's and CFO's believe that their companies consistently carry 25-40 percent more inventory than needed."

However, improvement of business performance does not necessarily imply squeezing inventory to the bone. Such measures can have a negative impact because the needed material is not stocked in inventory.

## Keep your inventory under control

Designing an efficient inventory monitoring strategy includes utilizing the right hardware to ensure that the stocked materials such as solids, liquids, and gases are quantified accurately. If it comes to the crunch, quantifying your inventory means weighing them accurately and reliably, whether they are stored in tanks, big bags, or barrels.

Starting with weigh modules and data transmitters, then combining them into expert weighing systems: with solutions from METTLER TOLEDO you are laying the foundation stone for an efficient inventory monitoring strategy.

## Key benefits

- Full transparency of your stocked material
- Real-time inventory data availability
- Accurate planning of material usage
- Avoidance of material shortages
- Optimized material turnover

1) "The Manager":  
<http://www.refresher.com/undercontrol.html>

to DCS, ERP



PLC

## IND130

- RS232, Profibus® DP, Allen-Bradley® RIO
- Up to four 350 Ω load cells
- CalFREE™ calibration without test weights
- TraxDSP™ digital vibration filtering

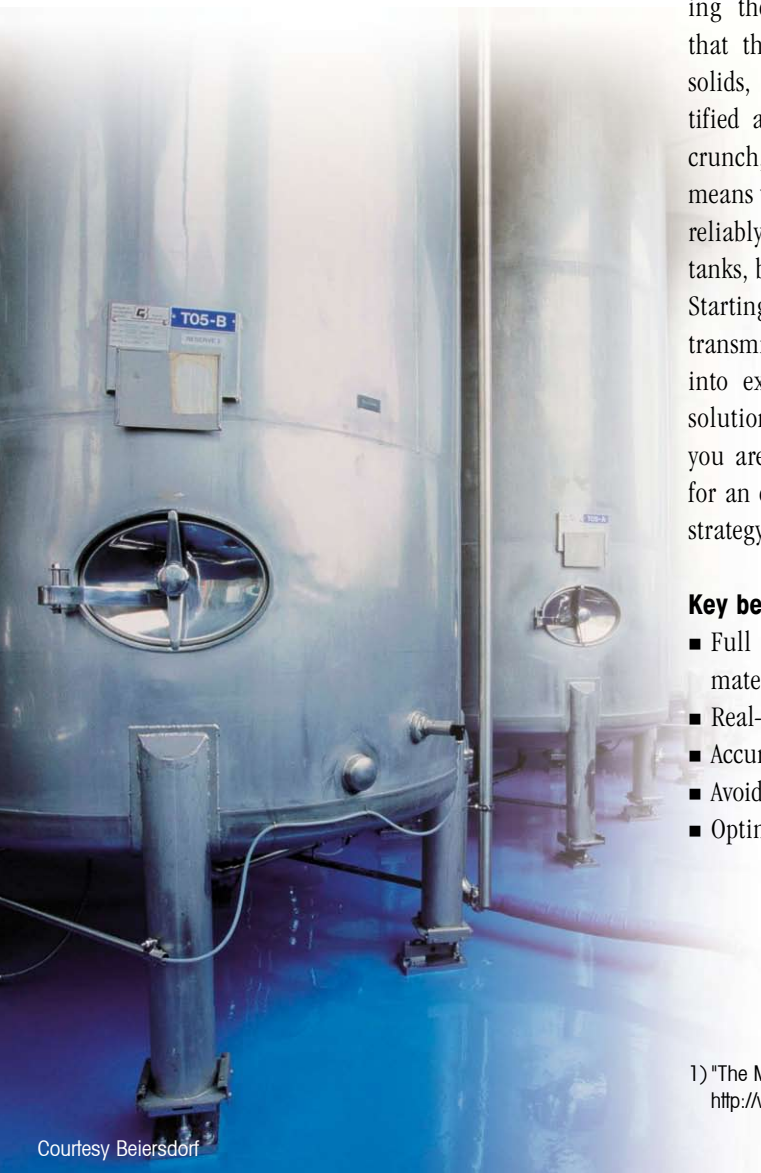
IND130  
weight transmitter



## Flexmount/Flexmount HD weigh modules

- Anti-lift device restrains tank from tipping
- Carbon steel and stainless steel design
- Accuracy: 3000d OIML & NTEP 10000d C111L
- Flexmount capacity range: 220 to 20412kg (250 to 45000lb)
- Flexmount HD capacity range: 22000 to 90000kg (50000 to 200000lb)
- Hazardous Area: ATEX and FM approvals

Flexmount  
weigh module



# Get to Know the Flow of Your Goods

**Many METTLER TOLEDO customers realize immediate and significant revenue savings by weighing vehicles and by filling or discharging on a weighbridge.**

METTLER TOLEDO truck and rail scales are government certified to precisely weigh to 20lbs and deliver highest accuracy and reliability even under harsh weather conditions. The industry-leading MTX POWERCELL® based scales insure your trucks and rail cars are quickly and accurately weighed and that your scale is up and running 24/7. With a routine maintenance plan, your scale will continue to operate at top performance, translating into real cost savings. And, in the very rare event of a cell failure, usually due to a physical damage to the cell or cable, the MTX POWERCELL® network instantly reports the failure as well as the failure location – and a technician

is quickly onsite getting you back up and running.

With MTX POWERCELL® load cells, vehicle scales are successfully operating in many normal and extreme environments, including deserts, Siberia and the Antarctic.

### **Connect your scale to OverDrive™ vehicle management software**

Powerful OverDrive™ vehicle scale software is designed to fully control inbound/outbound transactions of your production/storage facility. It enables you to determine what data is important, and allows you to customize the user interface, tickets and reports – import/export data for use with your CRM/MES/ERP system.



Courtesy Hoyer



Courtesy TBR

### **Digital MTX POWERCELL® load cells**

- Five years warranty
- 25-90t / 55 000-200 000lbs
- Instant failure notification
- IP68/IP69k protection
- 3000e – 6000e OIML
- 5000e – 10 000e NTEP
- ATEX Zone 1/21 & 2/22 and FM Divisions 1 & 2 approved
- Worldwide approval
- Worldwide calibration and expert service
- Integral lightning protection

### **Up and running in no time**

MTX POWERCELL® brand load cells are easily exchangeable through a protected waterproof connector

## Maximize Efficiency of Your Process

The IND560 weighing indicator empowers you to increase speed during filling steps while maintaining accuracy and reliability.

The features of the new IND560 add key benefits to your process and help you achieve highest product quality:

### Simple operation for increased productivity

- The Fill-560 application software module allows prompt configuration of standard or customizable sequences for filling, blending, dosing and discharging
- SmartTrac™ graphical guidance for target weight and tolerances helps the operator reach the fill target faster



- CalFREE™ is the smart and simple way for electronic calibration without test weights
- Quick configuration with InSite™ Software. Connected to the IND560 indicator or off-line, the software allows smooth changes to setup and configuration parameters

### High reliability

- MinWeigh® function ensures all measurements are within the tolerances of your weighing processes
- Calibration management monitors system performance and alerts operators of potential failures or maintenance needs for maximum uptime

- TraxDSP™ filtering system provides accurate weighments even in unstable environments



TraxDSP™ ensures accurate results even in difficult environments with vibration

### Smooth communication with your MPU networks

- Allen-Bradley® RIO, Profibus® DP or DeviceNet™
- 4-20mA analog output
- Ethernet
- Serial interfaces RS232/422/485
- Digital I/O: Up to twelve inputs and eighteen outputs

### Accuracy where it counts

Connect any type of scale for accuracy in any application:

- Up to eight load cells or
- One analog scale or
- High resolution digital scale with an approved resolution of 32 000e (max. 320 000d)

### A real survivor in harsh environments

- All stainless steel housing with IP69k protection
- Smooth design for minimized chemical/biological cross-contamination





# Tight enclosure for safe operation: JagXtreme X-purged

**The X-purged enclosure allows the use of standard weighing terminals in hazardous areas. The powerful JagXtreme terminal, which controls up to four scales and includes a full programming language, is appropriate for use with an X-purged enclosure.**

The airtight x-purged enclosure for Class I-III/Div 1 and Zone 1/21 has the following advantages:

- Internal pressure switch for continuous monitoring
- External spark arresting vent for pressure relief
- Automatic power shut-down upon pressure loss
- Status and alarm lights and outputs

The JagXtreme indicator features:

- Full Ethernet interface to send process weighing data to your ERP
- Fieldbus interfaces
- Setpoint controls
- Predictive maintenance
- Freely programmable to meet any specific weighing requirement



**JagXtreme X-purged**  
Hazardous area FM & CSA Division 1  
and ATEX Zone 1/21 approved

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