

Increased focus on Process Weighing

Weightron Bilancai are pleased to announce the appointment of Emlyn Roberts as Operations Manager.

This is part of Weightron's strategic expansion and Sales Director Nick Catt is very positive about the future: *'We have a well established share of the industrial weighing market in the UK and are now expanding our process and weighing systems business. Emlyn has over 25 years' weighing experience, during which time he has held senior engineering and sales positions with Avery, Salter Weightronix and Applied Weighing. With his broad knowledge of system and process weighing, I am confident he will be able to focus our efforts in this key growth area. As part of the renowned Bilancai Weighing group, we have access to a world class range of innovative products and systems.'*



What is weighingtalk.com?

This new web site is designed to keep you up to date about our company, products and personnel. Log on today to find out more and download detailed press releases and case studies.

On Show

Weightron are exhibiting at the following Trade Shows through 2005. This is the ideal opportunity to come and see our products, and discuss your application with our personnel. We hope to see you there and if you would like tickets for any of the shows please contact us.

HILLHEAD: Hillhead Quarry June 21-23rd

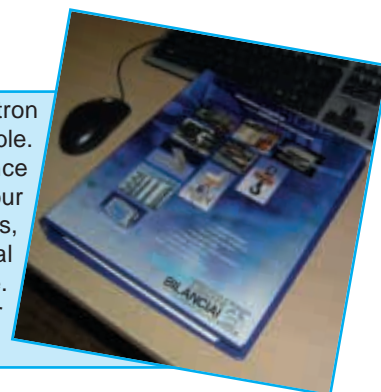
RWM: NEC Sept 13-15th

PPMA: NEC Sept 27-29th

Further details on the shows and our stands will be available on www.weighingtalk.com

Have you got your copy yet?

The long awaited Weightron Ring Binder is now available. This invaluable reference contains full details on our extensive range of products, together with approval information and much more. If you haven't received your copy please contact us.



Service with a Smile

Our **Telemaintenance™** package is an optional part of our comprehensive service and support portfolio and can be used with any weighing scale or system which has the *Dialogic™* series of instrumentation. Telemaintenance is particularly useful for weighing applications at remote sites; with the system installed, any problems are automatically flagged up at our offices and details immediately forwarded to the local engineer. He can then dial into the weighing system and make an assessment of the situation. In many cases, the engineer can carry out a range of checks and rectify the problem without having to visit the site. Alternatively provisions can be made to carry out remedial work during the next scheduled visit. All service data is stored using the powerful *Solarvista™* customer relationship management software package.



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weighingtalk.com

Weightron in control at new Heathrow Terminal 5 site

Three 60 tonne 18 m Eurodeck weighbridges are playing a pivotal role in the smooth and secure running of the huge construction site for Heathrow Airport's new Terminal 5.

When the project is completed in 2008, T5 will be the most advanced integrated passenger terminal in the world.

Monitoring the weight of raw materials entering the site is an important part of site management logistics. Main contractor Laing O'Rourke and BAA set three key criteria for the weighbridges, based around security, vehicle throughput and reliability. Given the proximity of the site to the existing runways, site security is a major priority. Weightron have worked closely with BAA security to provide a fully automatic and secure weighing procedure, fully integrated and compliant with

BAA's own system. The pit-mounted weighbridges are installed in the Entrance Plaza and fitted with entry-exit barriers. Their operation is fully automatic and each is controlled via a card-operated Self 800 weight terminal. Before vehicles can pass through the weighing checkpoint, vehicles and drivers have to meet the criteria of four separate checks. Each bulk delivery vehicle is supplied with its own identity card allowing it onto the weighbridge. The driver then has to use his own card to carry out the weighing.

Weight and security data collected by the Self 800s are sent to the central D800 weight terminal in the Plaza offices. This acts as the central server for the three weighbridges, allowing data to be logged on an adjacent PC. From here data can be downloaded in spread sheet format and securely emailed to designated recipients.



RoRo-Weigh Platforms keep Wessex Water out of the mire

Four *RoRo-Weigh* platforms supplied by Westco Bilanciai are ensuring treated sludge containers are not overfilled at the Minehead sewage treatment works.

Wessex Water view sludge as an important resource which can be used for crop fertilization, land reclamation and energy generation. After processing, the limed sludge cake, which contains about 30% solids, is pumped at high pressure into special sealed containers. The system is completely automatic and the outputs from the four platforms are fed into the plant PLC. When the container being filled reaches its gross capacity of 16 tonnes, the system either shuts down or transfers the sludge to another available container.

Minehead site supervisor, Mark Floyd is delighted with the system and as he explains. *'We process around 2500 tonnes of sludge a year and the weekly throughput can fluctuate significantly, especially in the summer months. The weighing system, which has been operational for over two years, has proved to be very reliable and Westco have been very supportive. Before the platforms were fitted, we had to 'guesstimate when the containers were full. If we underestimated then containers went out partly filled creating transport inefficiency. However, more often than not, the containers were overfilled and this could result in the doors being forced open-with the obvious consequences.'*



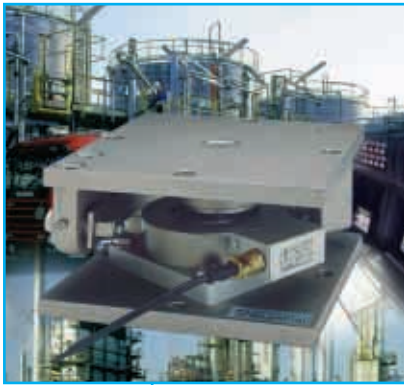
The *RoRo-Weigh* platforms are designed specifically to weigh roll-on roll-off waste containers during filling operations on site. Their robust construction ensures they can withstand the arduous conditions found at water treatment works, waste sites, building sites and factories. The decks have guide rails along their 6.3 metre length and a 'V' shaped end locator. The wheels of the container run along sacrificial strips set into the deck which can be replaced when they become worn.

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WEIGHTRON BILANCIAI
INDUSTRIAL WEIGHING SPECIALISTS GROUP

www.weightron.com



Pre-calibrated weighing kits save time and money

The Process Weighing Division of Weightron Bilanciai is introducing its versatile GPA range of vessel weighing kits.

Available with individual load cell capacities from 50 kg to 200 tonne, the GPA kits comprise of low profile, fully sealed, stainless steel load loadcells, integral mounting hardware and a stainless steel junction box. Optional weight indicators, smart junction boxes and local displays complete the comprehensive offering, while full ATEX compliant versions are also available for use in hazardous areas.

Unlike most competitive units, the Weightron loadcells come in pre-calibrated sets, making on-site installation extremely simple and, in most applications, removing the need for costly and time consuming calibration procedures. The load cells can also be supplied with terminated customised cable lengths to suit specific applications. The self-aligning mounting kits come complete with anti-lift and side restraints to ensure optimum system integrity and load introduction. The optional smart j-box offers a number of key operational benefits and stores the calibration data in its memory. Operations Manager Emlyn Roberts is upbeat about the possibilities for the GPA: *'These units are already tried and tested in many installations across Europe. We expect the kits to find applications across a range of industries including food, feed, chemical, minerals, pharmaceutical, petrochemical and waste recycling. Their integrated construction and pre-calibrated status make them ideal for use by Engineering Houses and Process Contractors, especially for overseas installations.'*

New ATEX certified indicator can be used for dusts and gases

Weightron Bilanciai's exciting new D440 ATEX certified weight indicator is now available

As you would expect from Europe's leading process weighing company, this cost effective indicator offers a wealth of features and can be used in hazardous areas for both gases and dusts. The D440 has a single and double weighing function and can be used for simple dosing or filling applications.

Certification: ATEX II 2 GD EEx ia IIC T5

Specification at a glance

- 230 VAC power supply (115VAC and 24 VAC versions available)
- 4 outputs on electro mechanical contacts V_{max} 110 VAC, I_{max} 200 mA
- 4 opto-isolated inputs V_{max} 6V, I_{max} 63mA, P_{max} 94mW
- 2 bi-directional optical-fibre serial channels
- 1 optional analogue output for voltage or current
- Backlit graphic display
- 18 key alphanumeric keypad
- Capability of driving up to four 350 ohm or eight 700 ohm loadcells



STOP PRESS : CPD digital weighbridge loadcell now available for use in hazardous areas

Heavyweight loadcell ideal for concrete batching

Weightron have introduced their STI range of industrial tension loadcells in capacities up to 15000 kg.



These robust products are specifically designed for high capacity hopper weighing, especially in the concrete batching industry. The fully sealed stainless steel construction provides excellent environmental compatibility, and OIML C3 approval makes this loadcell suitable for legal-for-trade applications up to 3000 divisions.

Although tension cells offer a convenient and effective solution for hopper weighing, most units do not have adequate thread size to accommodate appropriate eyebolts or rod-end bearings. By contrast the STI features a 36 mm thread top and bottom, allowing the fitting of support accessories with a high safe working load.

Contact us for details of our complete range of loadcells and accessories

Multi-range Weightron platform improves filling accuracy

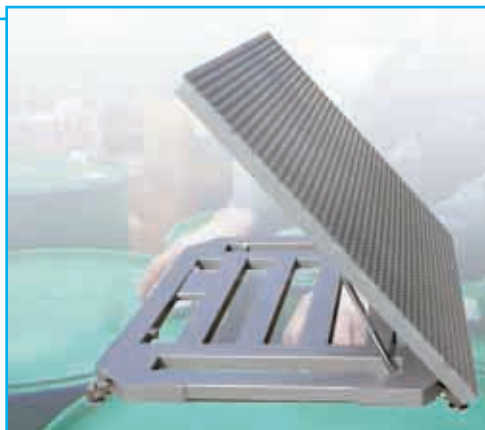
Weightron Bilanciai have installed a multi-range floor scale and 35 tonne vessel weighing system for leading crop nutrient manufacturer Phosyn as part of a filling system upgrade at their plant near York.

The filling system is used for filling liquid micro-nutrients into a variety of containers, depending on customers' requirements. Filling the small drums with the same proportional precision as the larger ones requires a special high accuracy platform. To solve this, Weightron have replaced the existing single range scale with their multi-interval, 1500 mm square, PRM stainless steel platform and D450 weight controller. In effect the scale operates as three separate 3000d units, with ranges of 0-300 kg x 100 g, 0-600 kg x 200 g and 0-1500 kg x 500 g.

The empty containers are brought to the scale on pallets, which may be made up of 32 small 25 litre drums in two layers of 16, four 210 litre drums or a single rigid 1000 litre IBC.

Phosyn's Production Engineer Sean Malloy is very pleased with the new system: *'Having the ability to weigh the three different containers on one scale is very cost effective and time saving. The 25 litre drums can now be weighed to +/- 100 g, the 210 litre ones within +/- 200 g and the IBCs within +/-500 g. The D450 is interfaced with the existing Mitsubishi PLC controlling the filling operation and the system has a fast and slow fill sequence to ensure the target weight is achieved within the specified legal-for-trade error.'*

The 33000 litre vessel has been installed to enable Phosyn to store bulk Glycol, an important base ingredient. The vessel is mounted on three Weightron GPAC 20 tonne load cell mounting kits, connected to a D450 mounted near the mixing tanks. The load cells and instrument were supplied pre-calibrated to give a system capacity of 35000 kg x 5 kg increment. The vessel is connected via a series of pipes and valves to the mixing tanks. The operator selects the route to the particular mixer, inputs the required weight, and presses the start button on the D450. The correct valve sequence is initiated and the set weight of Glycol is automatically dosed into the mixer.



Weightron clean up at Manchester Waste

Two Self 800 weighing control systems supplied by Weightron Bilanciai are playing a crucial role in Greater Manchester's ambitious waste recycling program.

The installation of the terminals and weighbridges is part of the upgrading of GMW's operational facilities to enable a more efficient turn round of collection vehicles. GMW operates over 25 kerbside collection vehicles and the permutations of round number and vehicles are considerable. As GMW's Paul Knowles explains: *'When we were investigating how we could implement a weight control system for recyclable waste, we recognised that we need a solution that was straightforward to operate and did not require any manual data entry by the drivers. The Weightron Bilanciai equipment provides us with a comprehensive management system that does not impose time restraints on the vehicles and crews.'*

The Self 800 is designed specifically for monitoring and controlling weighing at remote sites. Based on swipe cards, the system provides a complete waste management handling system which is easy to use by operators. Comprehensive management that can be stored and retrieved to provide full journal reports of waste activity either on-site or at a remote central location. The Self 800 can be networked for use in multiple weigh point applications in a conventional master-slave configuration.



Data for the individual cards is input by the appropriate GMW line manager containing information pertaining to round number, week and day number, collection districts, vehicle registration and product collected. At the beginning of a shift, cards are handed out to each crew. The vehicles then collect waste from their designated round and return to one of the waste transfer stations for weighing. Traffic lights control entry to the weighbridge and if green the vehicle can drive on. The driver then swipes his card through the terminal reader to initiate the weighing and the lights turn to red until the weighing is completed. The vehicle can then drive off and unload. When the vehicle is empty, the driver goes back to the weighbridge to repeat the weighing process. As Paul Knowles concludes: *'Early indications are very encouraging and the throughput of vehicles is very smooth. The data is presented in a comprehensive, yet simple to analyse, format. We are currently investigating the possibility of further integration for the system within our management system.'*