

Play it safe with explosion-proof products: reliable product solutions from the field of weighing technology

Industries such as the chemical, pharmaceutical, food and building materials often have to face challenging production environments which have a risk of explosion. Minebea Intec is an expert in explosion-proof solutions in industrial weighing and inspection technology. As a reliable partner and with around 150 years of experience to draw on, the global company helps industry to achieve the desired product quality while complying with the strictest safety requirements.

High-risk production conditions call for safe technology

Electrical devices in production processes with easily flammable substances increase the risk of explosion, and with it the risk of possible injury to people and damage to production facilities. Manufacturers therefore require devices that prevent the formation of flammable gases, vapours or dusts, or limit these to a safe level. "In the case of some end products, it is difficult to imagine how dangerous their necessary production processes actually are, such as the mixing of powders and solvents," explains André Huschke, Senior Product Manager Ex Solutions at Minebea Intec.

In many applications the spillage of chemical substances cannot be ruled out and this is problematic for the production environment. It is for that reason that where products are used in potentially explosive atmospheres and have a high ignition protection class, for example through intrinsically safe circuits, additional demands are placed on them in terms of their robustness and corrosion resistance.

Tailor-made weighing solutions for potentially explosive atmospheres

With its versatile and reliable product solutions for potentially explosive atmospheres, Minebea Intec is one of the market leaders in the field of explosion protection and sets the highest standards with its hallmark of German Quality. The load cells, weight controllers and high-resolution industrial scales have national approvals such as ATEX, NEPSI, TIS and NEC and the international approval IECEx; in addition to these, the company offers the expert consultation needed to design complex production processes in line with individual requirements and safety standards. "The protection class required always depends on the environment, the frequency of occurrence and the type of flammable material," explains André Huschke. "The various gases, vapours and dusts have very different ignition points, for instance. The temperature of the production environment and of the housing surface of devices and components therefore plays an important role when assessing whether the customer just requires the explosion-proof scale or even the explosion-proof weighing electronics."

To find out more about Minebea Intec weighing solutions for explosion-proof products visit www.minebea-intec.com.



Minebea Intec offers a variety of solutions for potentially explosive atmospheres, such as high-resolution industrial scales, weight controllers and load cells

Facts and figures on Minebea Intec

Minebea Intec is a leading manufacturer of industrial weighing and inspection technologies. With its headquarters in Hamburg, Germany, for around 150 years the company has been offering products and services which have become synonymous with innovation, performance and reliability. Their product portfolio includes platform scales, load cells, vessel and silo scales, checkweighers, metal detectors, X-ray inspection systems and user-friendly software solutions.

With around 1000 employees worldwide, 19 sites and a network of over 185 certified international distribution partners, Minebea Intec is a global player in its industry. Having sold more than 90,000 inspection systems, 350,000 industrial scales and indicators, around 1,000,000 industrial load cells, and services worldwide, the company can be relied upon by its customers and partners from a wide range of industries.

Minebea Intec is part of the MinebeaMitsumi Group, one of the leading suppliers of high-precision production components, such as ball bearings and engines, as well as high-quality electronic components, such as sensors, antennae and IoT solutions. The group, based in Tokyo, has over 78,000 employees worldwide and reported a consolidated net turnover of JPY 638,926 million (approx. EUR 4.8 billion) for 2016.

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