

## Challenge

TIEFENBACHER GROUP, a pharmaceutical company in Hyderabad, was founded in 1963 by Alfred E. Tiefenbacher. It is a pioneer in holistic healthcare which operates from the patient's standpoint and brings innovative healthcare solutions to people around the world. The company's portfolio covers all relevant pharmaceutical categories: raw materials, finished dosage forms (tablets, capsules, powders, drops, patches, etc.) and medical devices.

TIEFENBACHER GROUP wanted to integrate the weighing scale to the coating machine they were using. The challenge was the location of this machine, which stood in a hazardous area. RADWAG is not a manufacturer of coating machines – this device was produced by another company. It meant that our scale had to connect to another manufacturer's equipment, in addition in the Ex zone.

## Solution

A Profinet communication interface proved to be the ideal solution. Profinet is an open communication system based on the industrial Ethernet standard. It is a certain combination of features of PROFIBUS DB standard and industrial Ethernet. The Profinet interface application ensures compatibility of RADWAG's weighing systems with industrial automation elements of other manufacturers. This approach results in easier and faster scales integration with PLCs, HMI operator panels or industrial robots.

On top of this, Profinet had to meet the requirements of the Ex area: be made of resistant materials and feature a flawless connection. These conditions were met by the **PUE HX5.EX1 Weighing Terminal**. TIEFENBACHER GROUP trusted the flexibility of RADWAG's offer and its experience.

## Results

Supplier of coating machines to pharmaceutical formulation industries concluded that connectivity via Profinet in PUE HX5.EX1 terminal was the easiest one compared to any of our competition. As a result, the company showed interest to cooperate with RADWAG on future projects.

## Benefits

### Ease of Connection

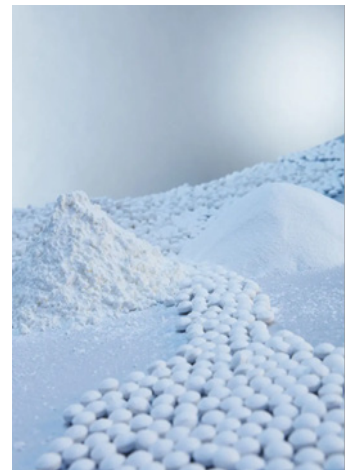
Integrating the scale with the coating machine by means of a RADWAG terminal proved to be the easiest solution of all available. Profinet offered by PUE HX5.EX1 became a joint triumph.

### Maximum Resistance

The PUE HX5.EX1 Weighing Terminal is made of robust materials, shock resistant and equipped with an intrinsically safe power supply intended for operation in hazardous areas.

### Flexibility

RADWAG's product is versatile enough to integrate devices from different manufacturers. Not only does it integrate, but it also provides ideal working conditions in a demanding environment.



## Summary

The cooperation between RADWAG and TIEFENBACHER GROUP resulted in an easy and solid connection of a scale to a coating machine which, in addition, are capable of operating in Ex zones. This project confirms RADWAG's position as a leader in the field of simple and reliable weighing solutions as well as a partner in the implementation of the most demanding pharmaceutical tasks.