



BD Industrial CASE STUDY

Client: AMREP
B&D Division: Scale Systems

Situation Overview:

Amrep, Inc., a contract packager of aerosol cans, wanted to upgrade their existing check weighing and data collection on one of their five filling lines from an old mechanical scale and clipboard to a paperless data collection system. This application was complicated by being located in a hazardous area FM rated Class 1 Division II.

B&D Solution:

Utilizing a combination of multiple vendors and components, B&D provided a Mettler Toledo Model PBA430 9"x 9" 6kg x 05g stainless steel construction IP68 & IP69K platform with one IND560 hazardous area approved terminal. The IND560 Instrument did not require a separate power supply (PSU) in the Safe Area as long as the 110 power was run to the instrument via steel rigid conduit. The RS232 serial output from the indicator and Cat5 cable also required a separate steel rigid conduit to the PC in the safe area. B&D provided a Pro-face Model 5017T 17" Flat Panel LCD touch screen monitor, which was mounted in a Hoffman enclosure. To remotely control the touch screen monitor, a Black Box ServSwitch KVM UPS extender was used which connected the monitor in the hazardous area by Cat5 cable to the PC in a safe area located approximately 200 feet away.

Results:

This solution allowed Amrep to automatically collect sample weights from the new manual check weighing station. This data is transmitted to a PC in a safe area where it is analyzed by Infinity QS software and displayed back in the hazardous area on the 17" touch screen monitor. Paperwork for the operator is eliminated as well as errors in recording data. The operator can view the current data and statistics on the product within seconds of taking the sample. Management is assured that the data is accurate and real-time.