

# Food & Beverage Industry Solutions

## Weigh Scale Dashboard Project

Coca Cola Achieves Real Time Reporting and Elimination of Data Loss through Rockwell Automation's Compact Logic

### Benefits

- Real Time Record of Production available
- Elimination of deviation during production
- Recipe and ingredient standardization
- Robust, Secure and Cost Effective Solution provided
- Batch wise production report available
- Access to Temperature and Humidity parameters available via sensors
- Live Dashboard with parameters on Temperature, Humidity, and Actual Weight of all scales during filling available

### Customer Feedback: 87% (Excellent)

*"Its been a wonderful experience working with Avanceon on data acquisition system i.e.. designing, planning, organizing, execution with coordination remain satisfactory. We were particularly impressed with the workmanship and professional approach towards deliverables. In future, we would like to engage Avanceon for Automation & Instrumentation and Training & Development."*

**Engineering Manager (Coca Cola)**

### About Coca Cola Corporation

The Coca-Cola Company (NYSE: KO) is a total beverage company, offering over 500 brands in more than 200 countries and territories.. Coca Cola is constantly transforming our portfolio, from reducing sugar in our drinks to bringing innovative new products to market. Coca Cola is also working to reduce their environmental impact by replenishing water and promoting recycling. With their bottling partners, Coca Cola employs more than 700,000 people, helping bring economic opportunity to local communities worldwide

### About Avanceon

(PSX: AVN) - Avanceon is an industrial automation consultation and system integration entity in Pakistan, Qatar, UAE, KSA and United States. Established in 1984, Avanceon is committed to providing engineering excellence to its clients and partners.



### Challenges

The biggest challenge for Coca Cola was streamlining all aspects of the production line, data collection and monitoring. The list of challenges for the Food & Beverage giant included,

1. Communication of different types of Mettler Toledo (Weigh Scales) with Prosoft Serial Interface (RS-232) in Dry, Wet and Mixing Area of the Plant.
2. Rockwell Based Historian to fetch Data from PLC via Ethernet.
3. Communication with Humidity/Temperature transmitter to collect data from Dry, Mixing and Filling Areas of the plant.

### Solutions

Coca Cola needed to streamline its assembly line processes and standardize its recipe on an efficient reporting system. After careful analysis of the requirements, Avanceon presented the following solution.

1. Compact logic-based control system to monitor the stable weight of dry, wet and mixing area as per selected recipe.
2. PLC to pool data continuously using ASCII based SICS command respectively.
3. User to have functionality on entering the batch number and reset the counter of serial number.

### Achievements

The technical management at Coca Cola accepted the solution proposal and Avanceon accomplished the following,

1. Excel based reporting to identify standard weight, actual weight and deviation of dry, wet and mixing products.
2. Excel based report was used to identify the deviation from target. Following KPIs were also shown
  - ✓ Maximum Reading in the Batch
  - ✓ Minimum Reading in the Batch
  - ✓ Cpk+
  - ✓ Cpk-
  - ✓ Cp
  - ✓ Cpk
3. Production data up to a year or more can be viewed at any time from the excel based reports.
4. Temperature and Humidity Report provided for all areas with one year or more data record.
5. GUI Application developed for Manual Data Entry with the capability of storing a year or more of data
6. Live Monitoring of Temperature/Humidity, Actual Weight, Standard Weight and Deviation of Filling via Dashboard available in 03 different areas of the plant.

Find out more about this solution by contacting us at [sales@avanceon.ae](mailto:sales@avanceon.ae)