BLH NOBEL
A VPG Brand

Remote Display of Weight/Volume

Application	Process Weighing
Industry Sector(s)	Pharmaceutical

The Customer

The customer is a major pharmaceutical company.

Customer Inquiry

The customer wanted to be able to batch and remotely monitor the content of its tanks used in production. Criteria included accessibility for several key members of production and management teams, and that the monitoring be performed via the Ethernet. The system needed to give accurate volume in liters or in weight.

Number of Tanks:	Today 2, expandable to 8. They have 11 tanks total
Tank Size:	10,000 liters to 15,000 liters

Solutions and Equipment

We made two special software programs, one for the G4 weight indicator and the second as a PC application. The G4 program has functions for displaying either weight or volume on the indicator display as well as on external displays, and in parallel, communicating with the PC application. The G4 instrument, with up to eight channels, is connected to the local area network (LAN/Ethernet). It could also have been connected by a wireless router. The special software for the PC allows the customer to monitor the tanks either by liter or by weight.

Figure 1: G4 with remote display on PC

The PC application 'G4 Monitor 001' can be installed on a number of PCs connected to the same network. It communicates with the G4 to monitor the weight or volume on the different channels. The PC can handle up to 8 scales. For security, it can be set up with a password. The PC application can communicate with the G4 instrument in two ways: via Modbus TCP on the Ethernet port or via Modbus RTU on any of the serial ports. Using the Modbus TCP, up to four users can be connected.

<u>Products used for the system</u>
- G4 panel mount with special software program – G4MI_1.5.120.1
- Batching software
- PC with special application software – G4 Monitor 001
- Load cells for weighing each tank – 3xKIS-1-100kN SS

Customer Comments

The system provides us faster and remote access to the level of our tanks. We can monitor them without moving out of the office and act accordingly. The contents of the tanks are critical in our production and this tool is important to our management, as well as production for inventory control and for production planning.
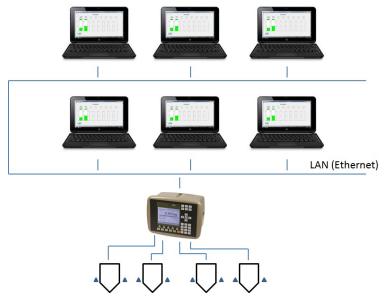

Figure 2: System configuration

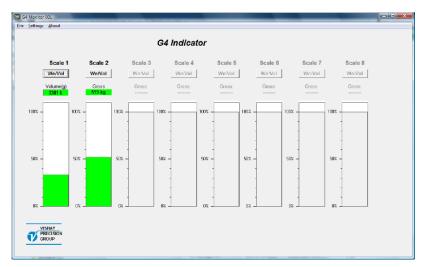*"An important tool for our production to keep control and optimize inventory"*

Figure 3: Screen shot of the PC application

Contact Information

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