



A Rockwell Automation Company

Schlumberger Industries Inc. Datamate 2100 Ticket Printing

The Client:

Schlumberger Industries Inc manufactures an M-Dot, 2100 series Datamate mass flow meter system that is very flexible in the applications that it can cover. Schlumberger has been a leader in custody transfer of

fluids for more than 100 years. Hinz is the authorized systems developer for Schlumberger Industries Inc.

The Requirement:

The mass flow metering system that Schlumberger manufactures comes as two sub-assemblies: the transducer, which is the element that fits in the piping, and the electronics, which is the Datamate 2100 interface. The Datamate 2100 is a small enclosure housing a keypad and LCD panel. Through this device the operator may start or stop deliveries and access information about the delivery of the product.

The mass flow metering system was not required to print a hardcopy report of deliveries. The ability to

print a delivery ticket with consecutive identification numbers and information, such as mass or volume totals, temperature and density was required. Additional ticket information would include date and time, company title and prompts for other information that the operator may have to manually write on a ticket.

The Design Solution:

Hinz developed a ticket printing application for the Schlumberger mass flow metering system that utilized the RS422 communications capabilities of the Datamate 2100. A total system solution, both hardware and software, was available for simple ticket printing from the metering system. This product did not contain a database of delivery transactions that can be used for detailed reporting, instead the system was developed for a low cost method of producing a ticket for deliveries. Internal tracking and accounting would instead use the multiple part form capability of a dot matrix printer.

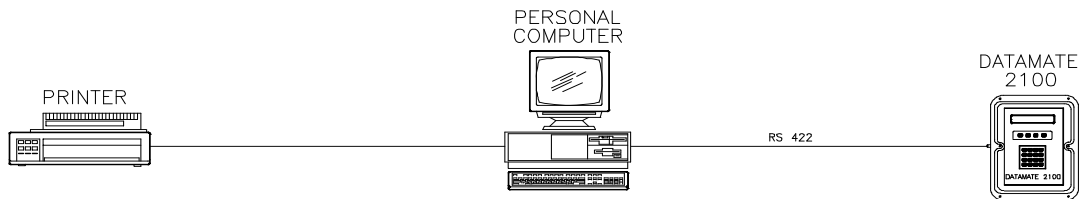
When the ticket is printed is determined by the state of the Datamate 2100. The operator selects a batch

amount and then begins the delivery from the Datamate keypad. When the batch is complete the operator presses the stop key on the Datamate, and the ticket prints. The information that is printed on the ticket was configured by Hinz to the customers' requirements before the system was shipped. The ticket sequence number is an incrementing number that is retained through power failures or system restarts.



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System Specifications:

This system is shipped as a complete package;

- Personal Computer
- Printer
- Software
- Installation only involves configuration of the Datamate and Communications wiring.

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com