

# case history

## Market: Manufacturing of Semiconductors

### CUSTOMER

Motorola, Inc., production facility in Phoenix, Arizona.

### PROBLEM

Motorola was building a new process chemical production line, and needed weight and level systems to control the mixing of as many as nine process chemicals such as hydrofluoric acid and ammonium fluoride. The batches ranged in size from 50 to 500 gallons. "The accuracy here is extremely tight," says Lee Campbell, production engineering manager at the Phoenix plant. "Most of the specs that I mix to are in the hundredths of a percent." Also, the company had outdoor storage tanks holding from 25 to 55 tons of sulfuric acid, acetic acid and nitric acid. Motorola required accuracy of 0.25% on the outdoor tanks.

### APPLICATION

Motorola decided to use Kistler-Morse's 1240 batch controller and Load Link transducers for its production process, while Kistler-Morse Load Stand transducers monitored the acids kept in the outdoor storage tanks.

### BENEFIT

"I'm getting very good accuracy and repeatability on the Kistler-Morse readings," says Lee Campbell, production engineering manager. "A typical value is accurate within 0.15%."

### CONCLUSION

Kistler-Morse's batch controller is connected to an IBM 7531 Industrial Computer in a host/slave arrangement, Campbell adds, "so we're able to work in real-time in a number of different systems. Kistler-Morse is very accurate and reliable — and I can't say that about all the vendors' instruments we have out there," Campbell says with a laugh.