

Automatic gas flow rate control for culturing apparatus

## An easy-to-use mass flow controller for pharmaceutical manufacturing



Gas flow rate control

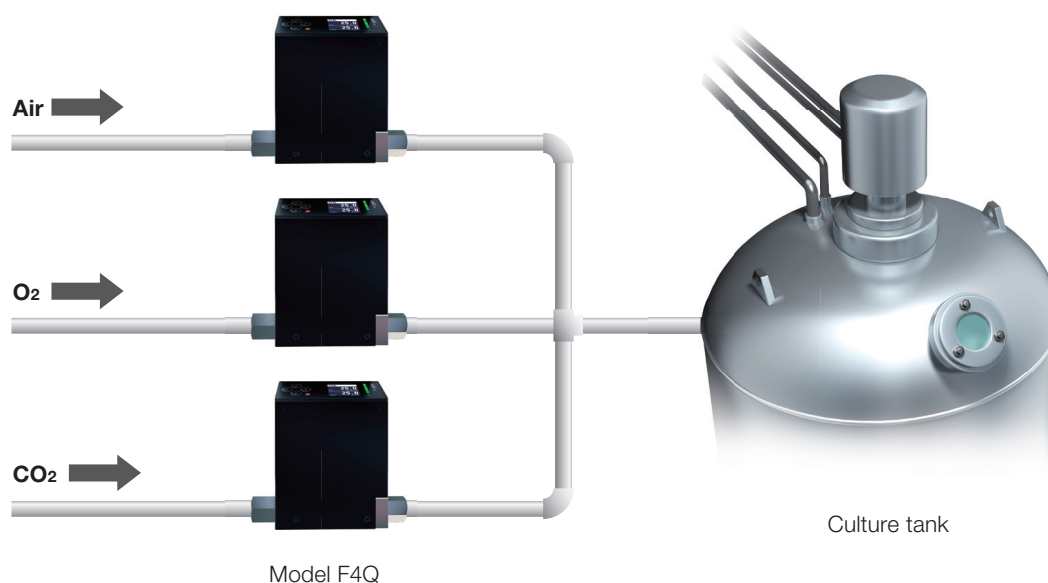
Product	Process sensor Digital Mass Flow Controller	Process/ equipment	Drug manufacturing equipment
Model No.	F4Q_____		

### Current Situation

- As more and more pharmaceuticals require strict culturing conditions, high-accuracy flow rate control is increasingly needed.
- We read the flowmeter at the manufacturing site to check the flow rate.
- The flowmeter at the manufacturing site is calibrated periodically.

### Current Problems

- Gas must be supplied with high accuracy in a wide range of flow rates.
- Because conventional mass flow controllers have no indicator, an indicator or float-type meter has been installed.
- When we cannot calibrate the controller onsite, we need to send it to the manufacturer, so the cost for removal, installation, and calibration is high and the schedule is tight.



## Solution 1

### High accuracy of 1 % of set point in a wide range of flow rates

A controller with high accuracy of 1 % of set point in a wide range of flow rates can control the flow rate with high accuracy even when the set rate is changed.

## Solution 2

### Large LED and liquid crystal displays show the status of control

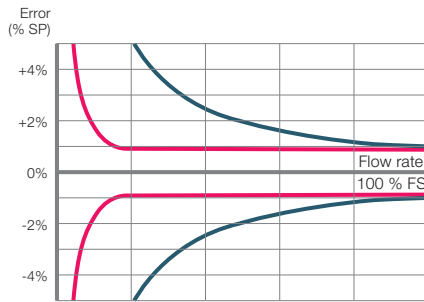
The large LED display allows you to understand the control status at a glance. The liquid crystal display gives the details.

## Solution 3

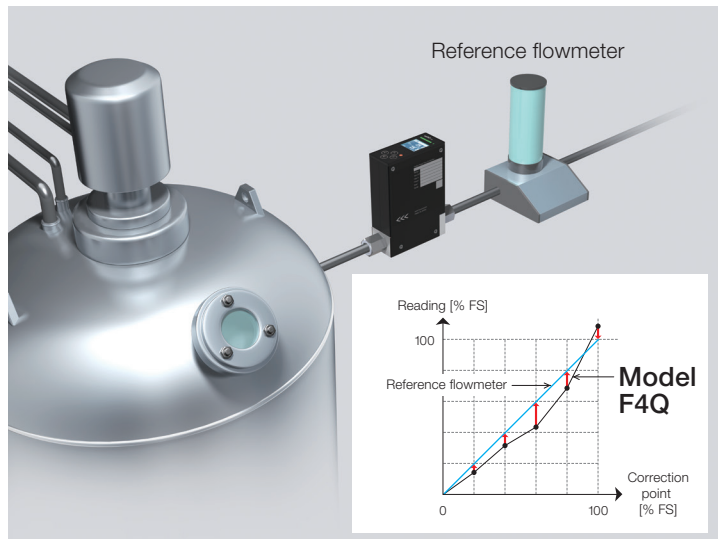
### Multiple-point flow rate correction allows matching to a reference flowmeter

This function makes it possible to match the controller to a reference flowmeter at the manufacturing site, reducing removal and reinstallation work, calibration costs, and scheduling pressure.

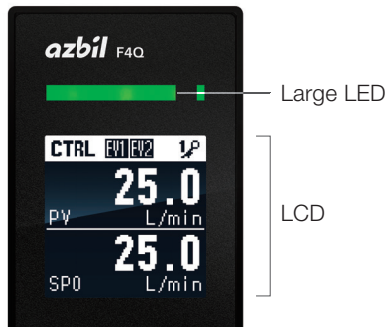
### Solution 1



### Solution 3



### Solution 2



## Related products



### Network Instrumentation Module Smart Device Gateway\* Model NX-SVG

Program-less communication can markedly reduce development time.

\* A communication gateway that allows the interchange of information between various kinds of control device without programming, enabling smarter development work.

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