azbil

FOUP nitrogen purge flow control

Helping to reduce adjustment work!

Gas flow rate control
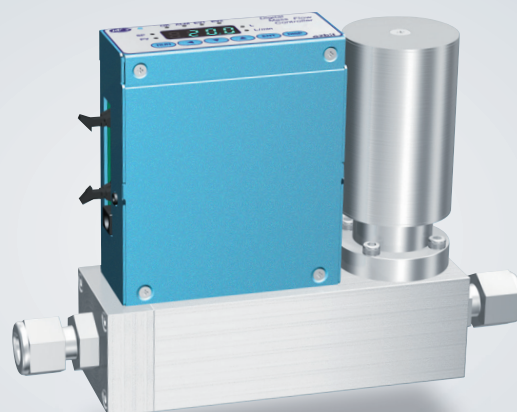
Product name	**Process sensor** **Digital mass flow controller**	Process and equipment name	**Front-end processes, Load port**
Model No.	MQV_ _ _ _		

Current Situation

- Startup flow rate must be adjusted to prevent swirl of particles.
- When there is an equipment error, an engineer has to investigate the cause and then make a replacement/adjustment.
- Changing of flow rate control parameters and monitoring of flow rate are done through a host device.

Particles (dust and dirt)

Foup

N2 (nitrogen)

Load Port
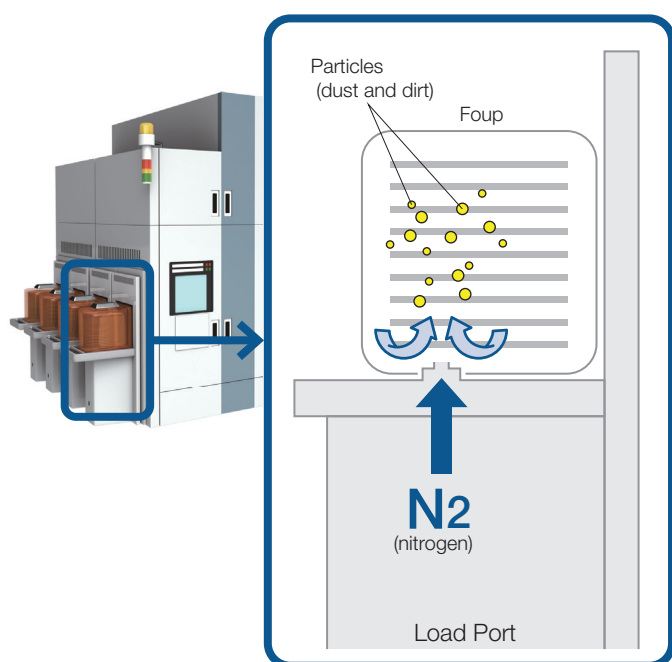
Current Issues

Problem 1

It is hard to create a program in the host device to fine-tune the N_2 flow rate startup characteristics.

Problem 2

Not only pinpointing the cause of an error, but even detecting the error is difficult because neither alarms nor flow rate are displayed for the mass flow.

Problem 3

Changing the mass flow rate parameters and adjusting the flow rate can't proceed until the host device is debugged, etc.

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Solutions

Solution 1

Our mass flow controller can adjust the startup characteristics of the N2 flow rate

With the SP ramp of MQV_ _ _ _ models, you can specify the flow rate change rate per second.

Solution 2

**Our mass flow controller's self-diagnostic function identifies and displays errors**

The self-diagnostic function aids locating investigation by identifying and displaying many different error states.

Solution 3

Parameters can be set without using any other device

The mass flow controller allows you to setspecify parameters easily using the display and keys. In addition, the PC loader can be used to save parameters to a file and to monitor changes in the flow rate in real time while you make adjustments.

Solution 1

- New LSP
- Original LSP
- LSP changed
- Change in SP
- Time
- LSP ramp rise rate
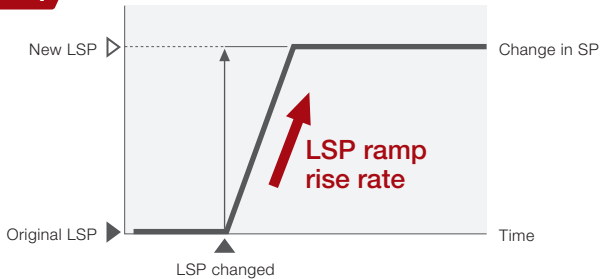
Solution 3

Easy connection to PC using dedicated USB communication cable
(included with MLP100)

Solution 2

OK ALM EV1 EV2
Digital Mass Flow Controller

SP ● AL01 ● L
PV ●   ● L/min

RUN ◄ ▼ ▲ ENT DISP
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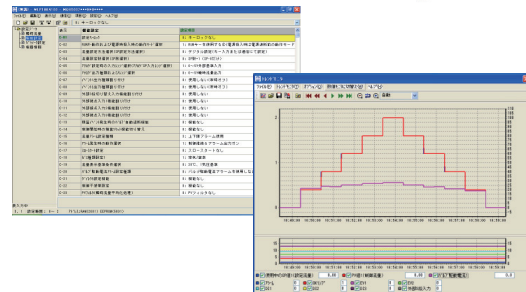
(Display/operation unit)

Related product

Network Instrumentation Module Smart Device Gateway*
Model NX-SVG

Significantly reduces the work needed for a connection to a host device such as a PLC.

* 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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