

AP Series

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AP Series

AP200Series Auto Pressure Regulator

AP-200,250,500 Depend on Flow Rate

AP-300 Ultra Low Pressure Controller

AP100/150 Auto Pressure Controller

ON/OFF type solenoid valve

Linear control type solenoid valve

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AP200 Auto Pressure Regulator

Feature

- For Semiconductor equipment and Manufacture
- For Clean Gases
- Stable and High flow
- Quick Response

AP200N **Ultra Small Digital Auto-Pressure Regulator**

What is A P 2 0 0 N

- World's smallest Auto-Pressure Regulator
- Digital control by small CPU
- DC24V single power supply
- Control pressure is up to 0.6MPa
- High flow by this size
- Spring-less
- Digital setting by CD100 (smallest controller)
- Remote control and cascadable
- Alarm setting can be set
- EMO control signal can be used
- 1/4" VCR connection
- Unique control mechanism



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AP250,AP-500

- **Press. Control :High Flow Gas**
AP-250 : 500SLM,
AP-500 : 2000SLM
- **Other Function**
same as AP-200



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Why Automatic ?

- * Conventional Regulators are all Manual

- * What is the Demerit of Manual ?

Pressure Setting is always done manually

Central Control ---- Impossible

- Process Gas Low Press.

- Purge Gas High Press.

Control Press always change by Flow-rate
and Inlet Gas Press.

Why Pneumatic ?

* Available Valve and their Comparison

Control Valve	Clearance	Force	Response	Shut-Off	High Flow
Solenoid	Can Use	NO	Good	Can Use	Can Use
Piezo	NO	Good	Good	Can Use	NO
Thermal	Can Use	NO	NO	NO	Can Use
Butterfly	Good	Can Use	NO	NO	Good
Pneumatic	Good	Good	Good	Good	Good

AP200N

Ultra Small Digital Auto-Pressure Regulator



What is A P 2 0 0 N

- You can separate the CD100 and Regulator

How to connect

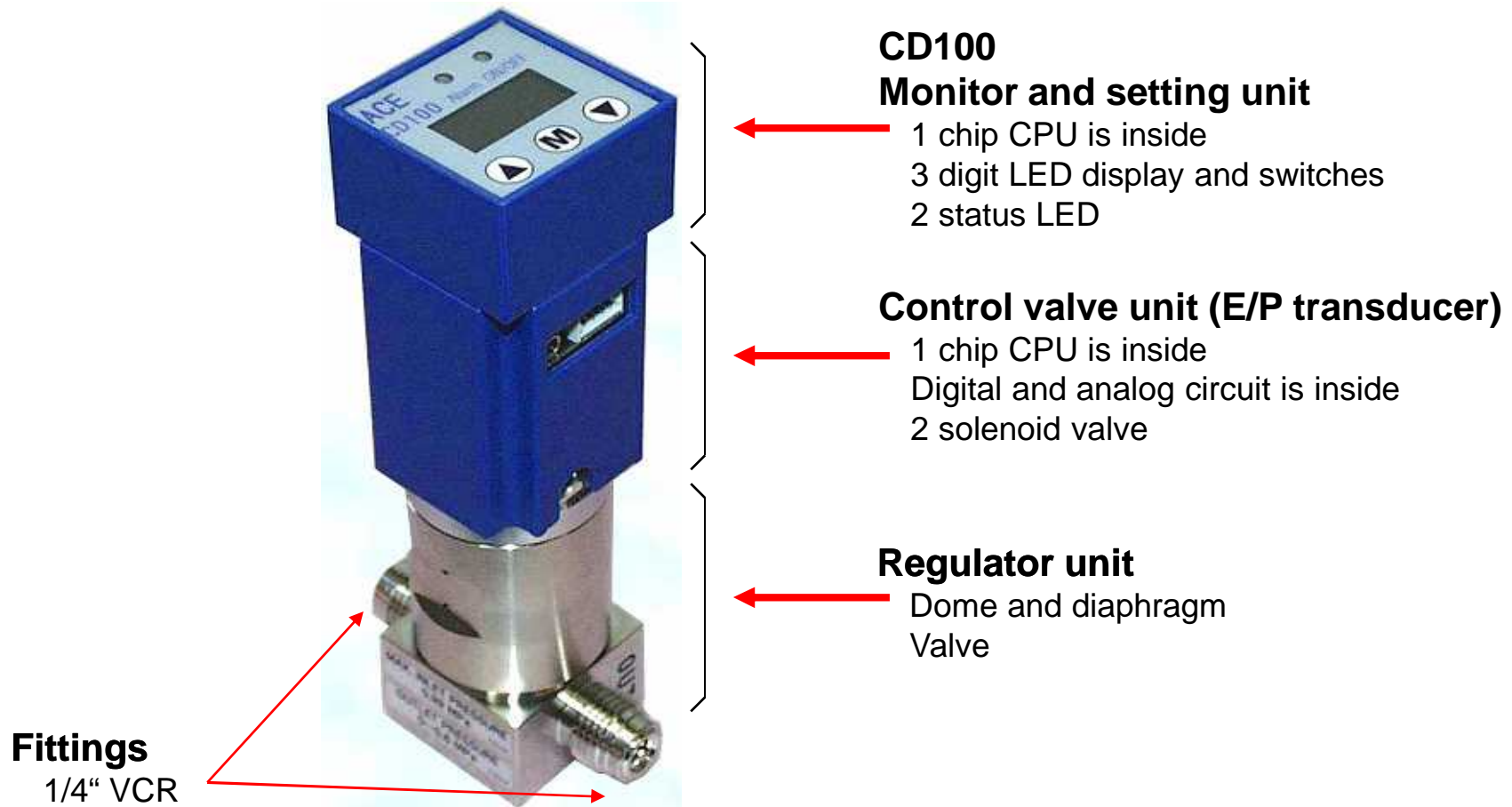
- RS-485 communication (Cascadable)

What is a RS-485

- It is one of serial communication method.
- It can connect to PC and external remote controller.
- Command sets and monitoring are available

AP200N **Ultra Small Digital Auto-Pressure Regulator**

What is A P 2 0 0 N



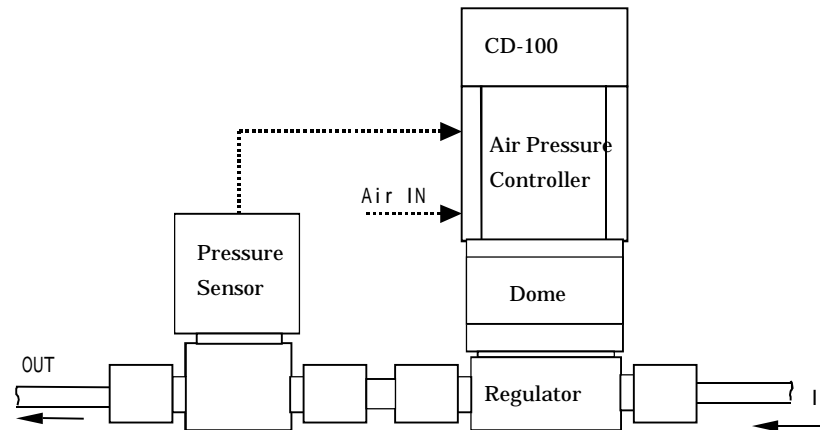
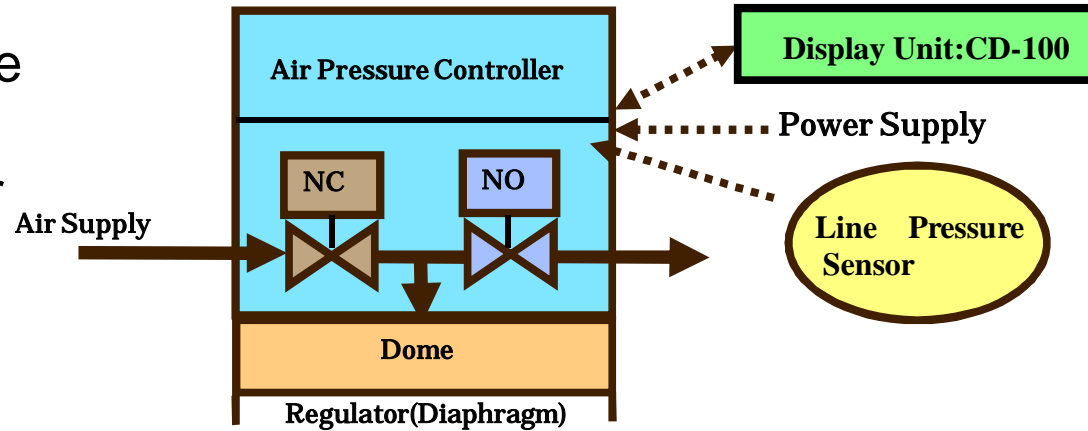
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AP200N

Ultra Small Digital Auto-Pressure Regulator

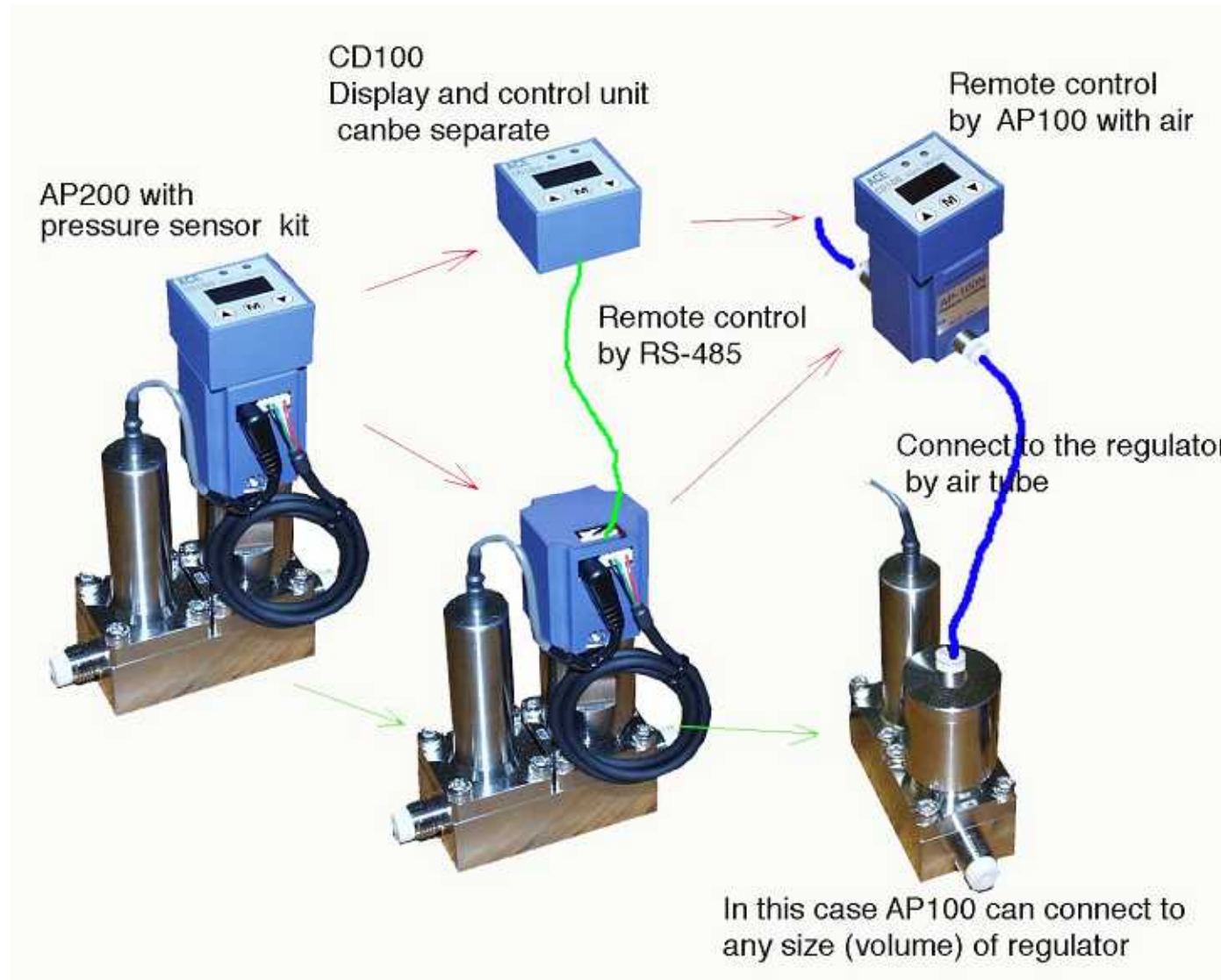
How to control the air supply??

Control 2 solenoid valve
N/C for inlet air
and N/O for exhaust air



AP200N

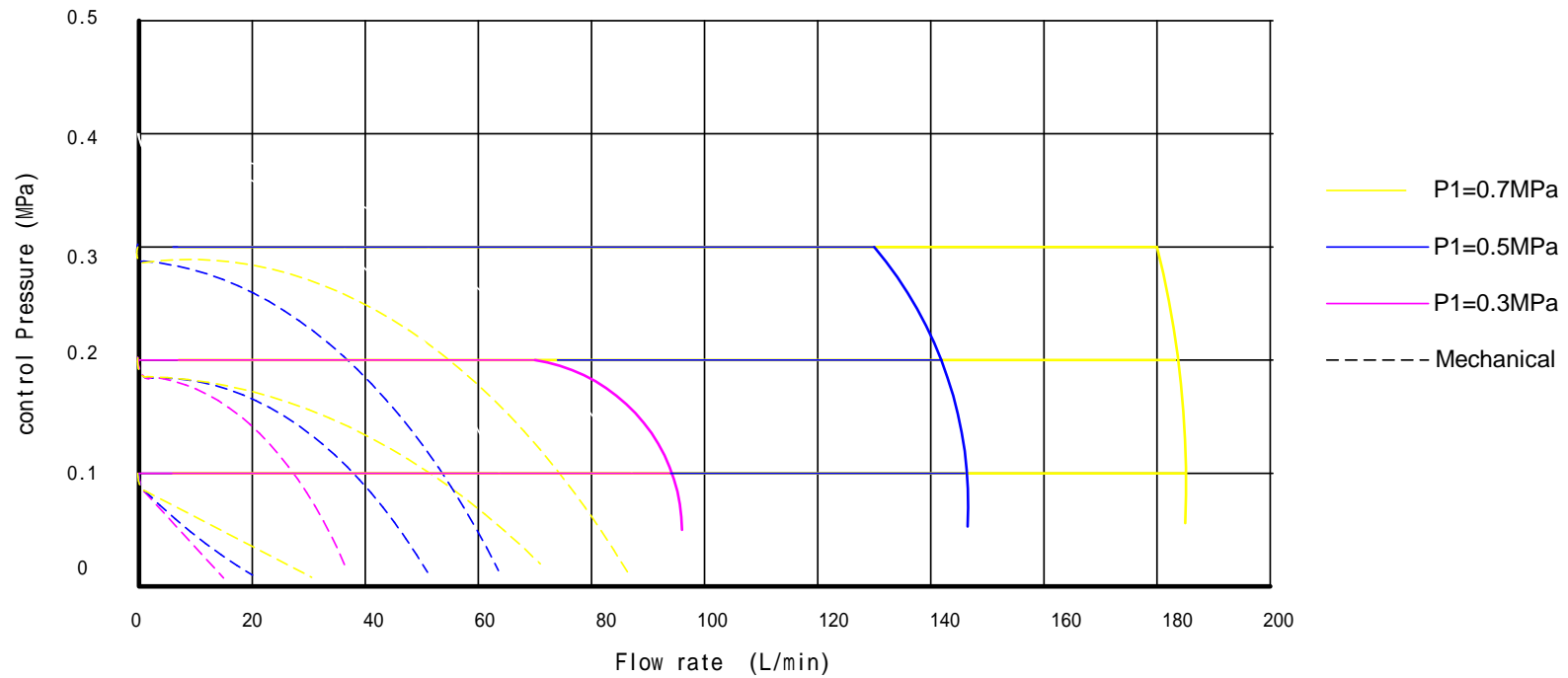
Ultra Small Digital Auto-Pressure Regulator



AP200N

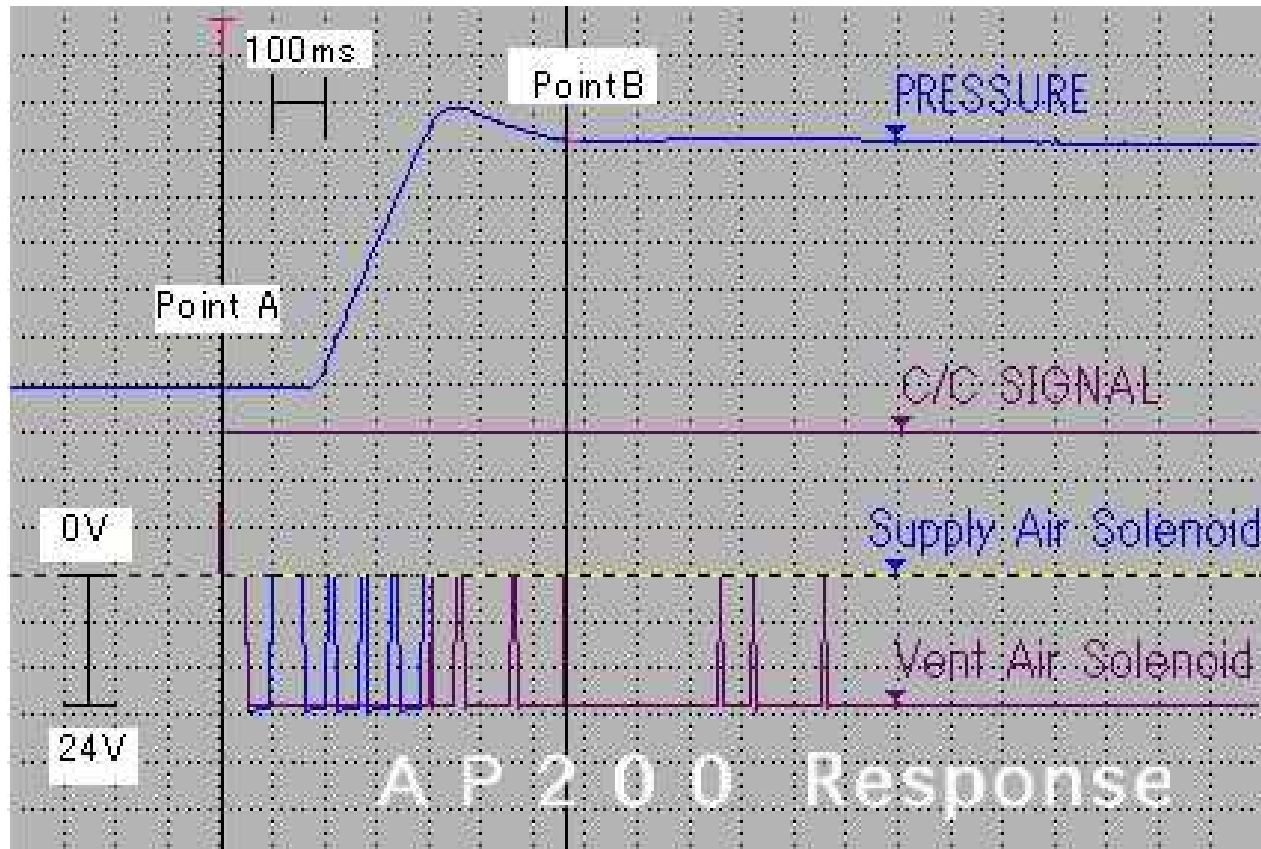
Ultra Small Digital Auto-Pressure Regulator

Sample characteristics



AP200

Response sample



AP100 / 150

**Ultra Small
Digital Auto-Pressure controller**

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AP100

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AP100 Auto Pressure Controller

Feature

- Pulse controlled ON/OFF solenoid valve
- Not only for Semiconductor world
- Variable speed control of air cylinder
- Stable and low flow
- Quick Response

AP100N **Ultra Small Digital Auto-Pressure Controller**

What is AP100N

- World's smallest Auto-Pressure controller
- Digital control by 1 chip CPU
- DC24V single power supply
- Control pressure is up to 0.65MPa
- Low flow range
- Digital setting by CD100 (smallest controller)
- Remote control and cascadable
- Alarm setting can be set
- EMO control signal can be used
- Quick connection
- Unique control mechanism



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AP100N

Ultra Small Digital Auto-Pressure Controller



What is AP100N

- You can separate the CD100 and Regulator

How to connect

- RS-485 communication (Cascadable)

What is a RS-485

- It is one of serial communication method.
- It can connect to PC and external remote controller.
- Command sets and monitoring are available

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AP100N

Ultra Small Digital Auto-Pressure Controller

What is AP100N



CD100

Monitor and setting unit

- 1 chip CPU is inside
- 3 digit LED display and switches
- 2 status LED

Control valve unit (E/P transducer)

- 1 chip CPU is inside
- Digital and analog circuit is inside
- 2 solenoid valve

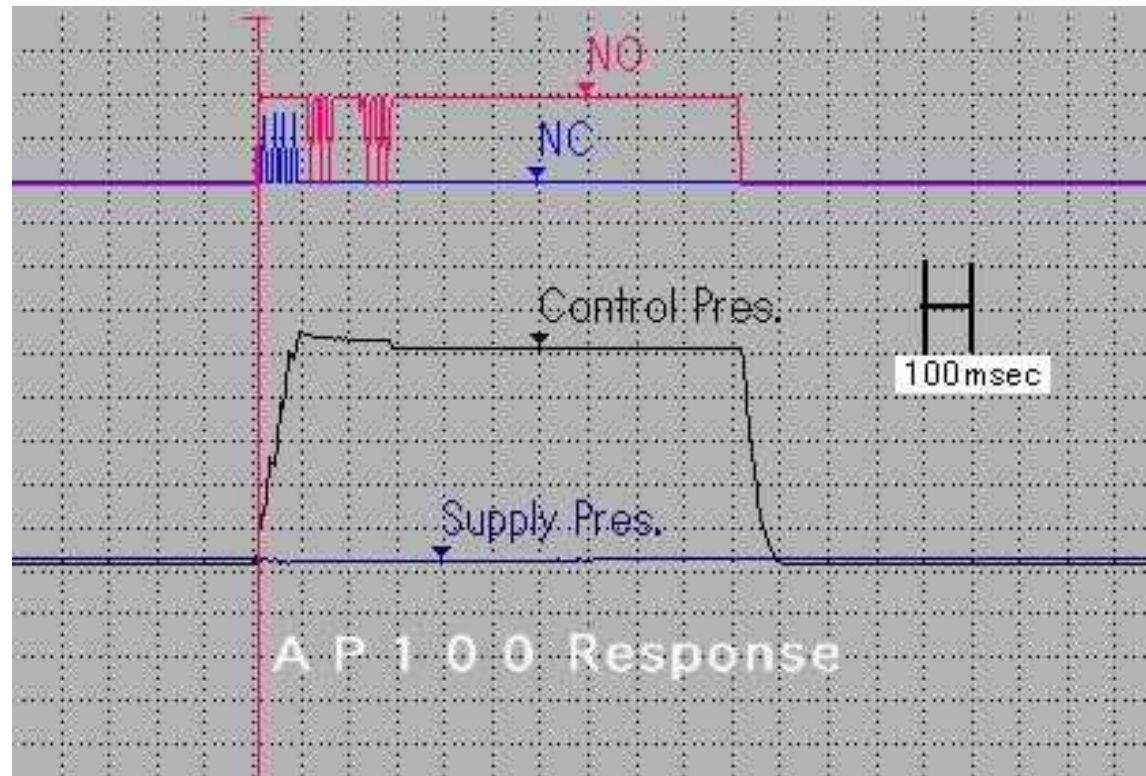
Fittings

Quick connector

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AP100N

Sample Response



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AP150

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AP150 Auto Pressure Controller

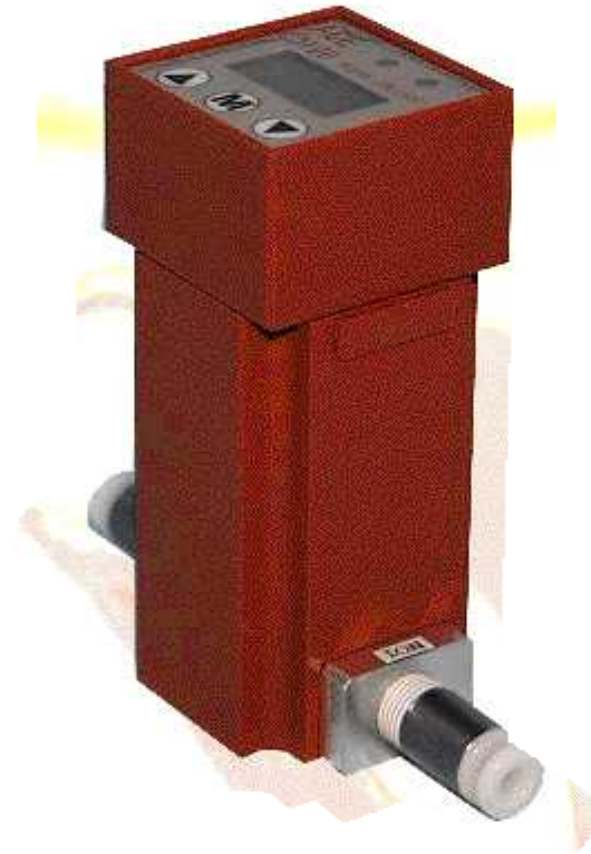
Feature

- Pulse controlled Linear control type solenoid valve
- Not only for Semiconductor world
- Variable speed control and flow control for liquid flow control system
- Stable and Mid size flow
- Quick Response

AP150N **Ultra Small Digital Auto-Pressure Controller**

What is AP150N

- World's smallest linear control type Auto-Pressure controller (none on/off type)
- Digital control by 1 chip CPU
- DC24V single power supply
- Control pressure is up to 0.5MPa
- Mid flow range
- Digital setting by CD100 (smallest controller)
- Remote control and cascadable
- Alarm setting can be set
- EMO control signal can be used
- Quick connection
- Unique control mechanism



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AP150N

Ultra Small Digital Auto-Pressure Controller



What is AP150N

- You can separate the CD100 and Regulator

How to connect

- RS-485 communication (Cascadable)

What is a RS-485

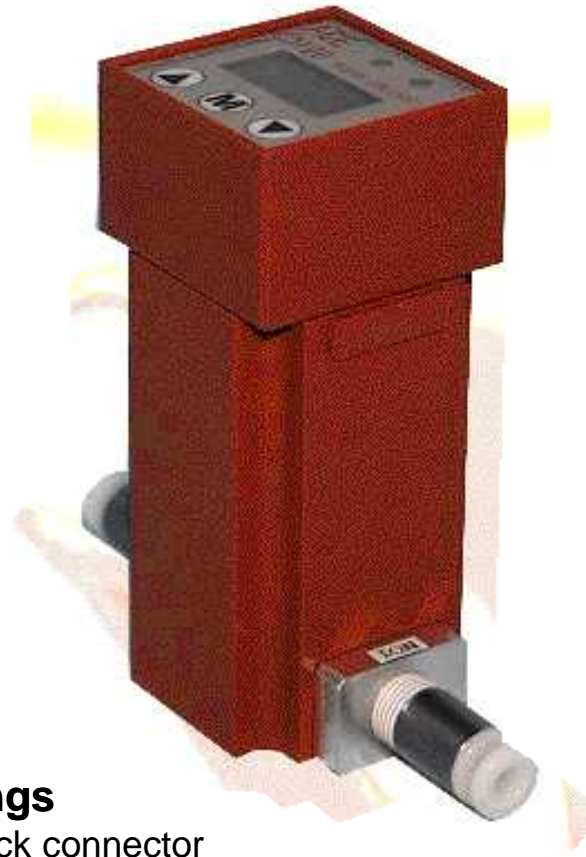
- It is one of serial communication method.
- It can connect to PC and external remote controller.
- Command sets and monitoring are available

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AP150N

Ultra Small Digital Auto-Pressure Controller

What is AP150N



Fittings

Quick connector

CD100

Monitor and setting unit

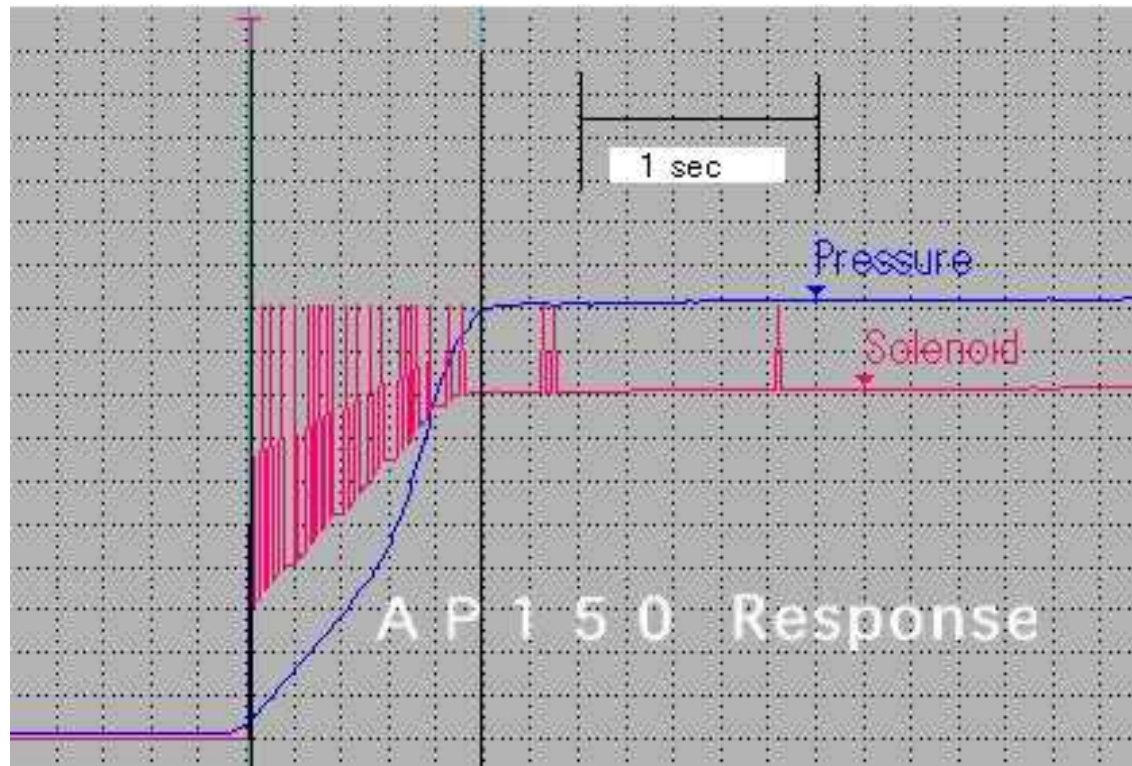
- 1 chip CPU is inside
- 3 digit LED display and switches
- 2 status LED

Control valve unit (E/P transducer)

- 1 chip CPU is inside
- Digital and analog circuit is inside
- 1 linear control type solenoid valve
(None ON/OFF type)

AP150N

Sample Response



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END

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