LUMINOUZ

PRESSURE CONTROLLER LN10-300

PRESSURE CONTROLLER (LOW RANGE)

Product Applications

Applications: semiconductor process, gas and liquid chromatograph, steam pressure control in MOCVD process, gas pressure protection control in extrusion molding process, autoclave/reactor pressure control, etc.

Product application

The LN10 pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control. We have different series of control valves for specific applications. Standard direct-acting valves are used for conventional applications and pilot valves are used for high flow rate applications.

Product Overview

The LN10 series pressure controller/gauge is a straight-through design with a measurement range from 100KPa to 10MPA (absolute and gauge). Differential pressure transmitters are also available. This series of instruments has high accuracy and good repeatability, and is divided into two types: front pressure control and back pressure control.

The LN10 series comes standard with a piezoelectric diaphragm pressure sensor and digital circuit board to provide high-precision, stable, and reliable pressure measurement and control. This basic digital PC board has all the basic functions you need for measurement and control. In addition to the standard RS485 output signal, the LN10 also provides analog I/O signals.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±1%F.S	
	Pressure to range ratio	manometer	1:50
		Pressure controllers	1:20
	repeatability	≤0.1%	
	Sensor response time	0.2s	
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)	
	Operating temperature	-10~+70℃	
	Temperature sensitivity	0.1%FS/℃	
	Leakage rate	1×10^{-9} SCCS He	
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)	
		<0.6 KPa (differential pressure sensor)	
	Warm-up time	Negligible	
Mechanical components	Material	stainless steel	
	Process connections	G3/8"	
	Sealing material	Viton/Nitrile/Neoprene/Others	
	Ingress Protection (Housing)	IP40	
Electrical characteristics	power supply	15~24Vdc	
	Digital output	RS485/RS232	
	Electrical connections	DB15	

LN10-300 Pressure Controller (Low Range: ≤300KPa)

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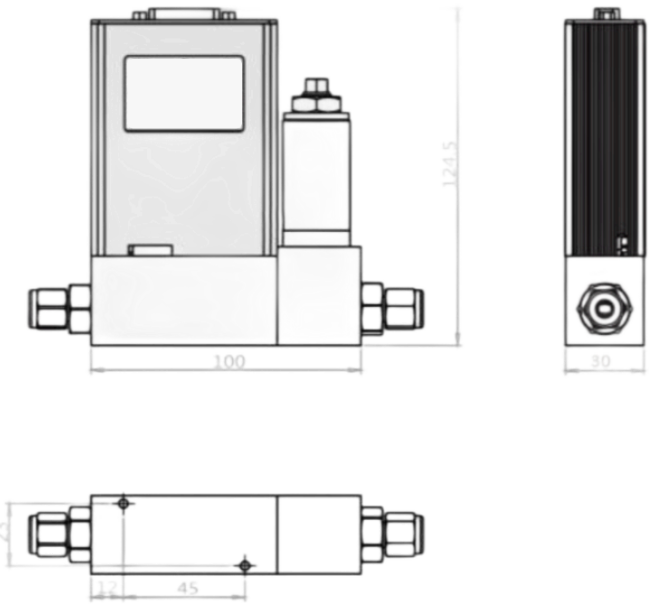
Product Selection

Serial number	LN10
Product type	[C] Pressure controller [M] Manometer
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa [Z] 10MPa (manometer only)
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[100K] 100KPa [300K] 300KPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232
Sealing material	[V] fluoroelastomer [T] Nitrile rubber [N] neoprene [Y] others
Use connectors	[A] φ3 [B] φ6 [F] 1/8" [G] 1/4" [Y] Others, Please contact the manufacturer
Example of model selection	**LN10 M A M N 100K 007 A1 B1 5 8 V E**

The product size drawing



LUMINOUZ

PRESSURE CONTROLLER LN10-500

PRESSURE CONTROLLER (MEDIUM RANGE)

Product Applications

Applications: semiconductor process, gas and liquid chromatograph, steam pressure control in MOCVD process, gas pressure protection control in extrusion molding process, autoclave/reactor pressure control, etc.

Product application

The LN10 pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control. We have different series of control valves for specific applications. Standard direct-acting valves are used for conventional applications and pilot valves are used for high flow rate applications.

Product Overview

The LN10 series pressure controller/gauge is a straight-through design with a measurement range from 100KPa to 10MPA (absolute and gauge). Differential pressure transmitters are also available. This series of instruments has high accuracy and good repeatability, and is divided into two types: front pressure control and back pressure control.

The LN10 series comes standard with a piezoelectric diaphragm pressure sensor and digital circuit board to provide high-precision, stable, and reliable pressure measurement and control. This basic digital PC board has all the basic functions you need for measurement and control. In addition to the standard RS485 output signal, the LN10 also provides analog I/O signals.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±1%F.S	
	Pressure to range ratio	manometer	1:50
		Pressure controllers	1:20
	repeatability	≤0.1%	
	Sensor response time	0.2s	
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)	
	Operating temperature	-10~+70℃	
	Temperature sensitivity	0.1%FS/℃	
	Leakage rate	1×10^{-9} SCCS He	
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)	
		<0.6 KPa (differential pressure sensor)	
	Warm-up time	Negligible	
Mechanical components	Material	stainless steel	
	Process connections	G3/8"	
	Sealing material	Viton/Nitrile/Neoprene/Others	
	Ingress Protection (Housing)	IP40	
Electrical characteristics	power supply	15~24Vdc	
	Digital output	RS485/RS232	
	Electrical connections	DB15	

LN10-500 Pressure Controller (Medium Range:300KPa~500KPa)

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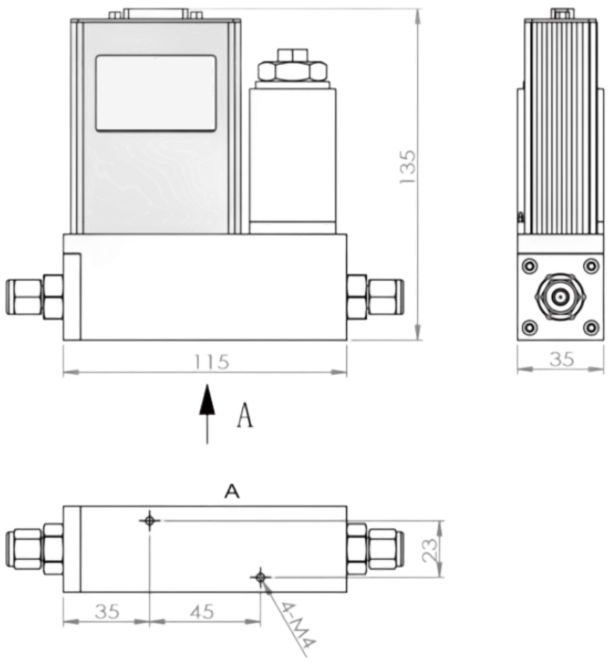
Product Selection

Serial number	LN10
Product type	[C] Pressure controller [M] Manometer
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa [Z] 10MPa (manometer only)
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[300K] 300KPa [500K] 500KPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232
Sealing material	[V] Viton [T] Nitrile rubber [N] neoprene [Y] others
Use connectors	[A] φ3 [B] φ6 [F] 1/8" [G] 1/4" [Y] Others, Please contact the manufacturer
Example of model selection	**LN10 M A M N 300K 007 A1 B1 5 8 V E**

The product size drawing



PRESSURE CONTROLLER LN10-10000

PRESSURE CONTROLLER (LARGE RANGE)

Product Introduction

The LN10 series pressure controller/gauge is a straight-through design with a measurement range from 100KPa to 10MPA (absolute and gauge). Differential pressure transmitters are also available.

Product Application

Applications: semiconductor process, gas and liquid chromatograph, steam pressure control in MOCVD process, gas pressure protection control in extrusion molding process, autoclave/reactor pressure control, etc.

The LN10 pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control. We have different series of control valves for specific applications. Standard direct-acting valves are used for conventional applications and pilot valves are used for high flow rate applications.

Product Overview

The LN10 series pressure controller/gauge is a straight-through design with a measurement range from 100KPa to 10MPA (absolute and gauge). Differential pressure transmitters are also available. This series of instruments has high accuracy and good repeatability, and is divided into two types: front pressure control and back pressure control.

The LN10 series comes standard with a piezoelectric diaphragm pressure sensor and digital circuit board to provide high-precision, stable, and reliable pressure measurement and control. This basic digital PC board has all the basic functions you need for measurement and control. In addition to the standard RS485 output signal, the LN10 also provides analog I/O signals.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±1%F.S	
	Pressure to range ratio	manometer	1:50
		Pressure controllers	1:20
	repeatability	≤0.1%	
	Sensor response time	0.2s	
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)	
	Operating temperature	-10~+70℃	
	Temperature sensitivity	0.1%FS/℃	
	Leakage rate	1×10^{-9} SCCS He	
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)	
		<0.6 KPa (differential pressure sensor)	
	Warm-up time	Negligible	
Mechanical components	Material	stainless steel	
	Process connections	G3/8"	
	Sealing material	Viton/Nitrile/Neoprene/Others	
	Ingress Protection (Housing)	IP40	
Electrical characteristics	power supply	15~24Vdc	
	Digital output	RS485/RS232	
	Electrical connections	DB15	

LN10-10000 Pressure Controller (Large Range: 1MPa~10MPa)

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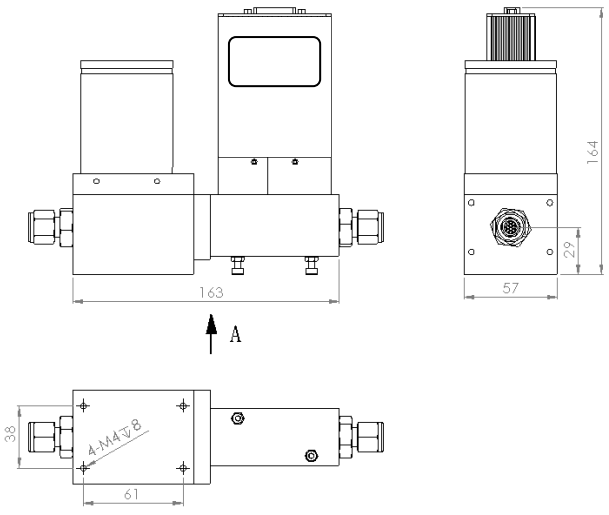
Product Selection

Serial number	LN10
Product type	[C] Pressure controller [M] Manometer
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa [Z] 10MPa (manometer only)
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[1M] 1MPa [5M] 5MPa [10M] 10MPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232
Sealing material	[V] Viton [T] Nitrile rubber [N] neoprene [Y] Contact the manufacturer
Use connectors	[A] φ12 [F] Flange installation [Y] Others, Please contact the manufacturer
Example of model selection	**LN10 M A M N 005 007 A1 B1 5 8 V A**

The product size drawing



PRESSURE CONTROLLER LN20-300

HIGH PRECISION PRESSURE CONTROLLER (LOW RANGE)

Product Introduction

Equipped with high-performance sensors and a digital circuit board, the LN20 series of pressure controllers provides higher accuracy and performance pressure control, and can accurately control the entire process by adjusting the setpoint, and supports the Profibus protocol in addition to the standard Modbus protocol.

Product Application

Applications: semiconductor production, scientific research experiments, biomedicine, energy and chemical industry, leak testing, fuel cells, vacuum coating and process control, etc.

Product Overview

The LN20 series pressure controller/gauge is a straight-through design with a measurement range from 100KPa to 10MPA (absolute and gauge). Differential pressure transmitters are also available. This series of instruments has high accuracy and good repeatability, and is divided into two types: front pressure control and back pressure control.

The LN20 series comes standard with a pressure sensor and a digital circuit board that provides high accuracy, fast stability, and reliable pressure control, and this PC digital board has all the functions needed to control the pressure. In addition to the standard RS485 output signal, the LN20 also provides analog input/output signals, which can be adjusted to precisely control the entire process. The LN20 series pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±0.5%F.S	
	Pressure to range ratio	manometer	1:50
		Pressure controllers	1:20
	repeatability	≤0.1%	
	Sensor response time	0.2s	
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)	
	Operating temperature	-10~+70℃	
	Temperature sensitivity	0.1%FS/℃	
	Leakage rate	1×10^{-9} SCCS He	
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)	
		<0.6 KPa (differential pressure sensor)	
	Warm-up time	Negligible	
Mechanical components	Material	stainless steel	
	Process connections	G3/8"	
	Sealing material	Viton/Nitrile/Neoprene/Others	
	Ingress Protection (Housing)	IP40	
Electrical characteristics	power supply	15~24Vdc	
	Digital output	RS485/RS232	
	Electrical connections	DB9	

LN20-300 Pressure Controller (Low Range: ≤300KPa)

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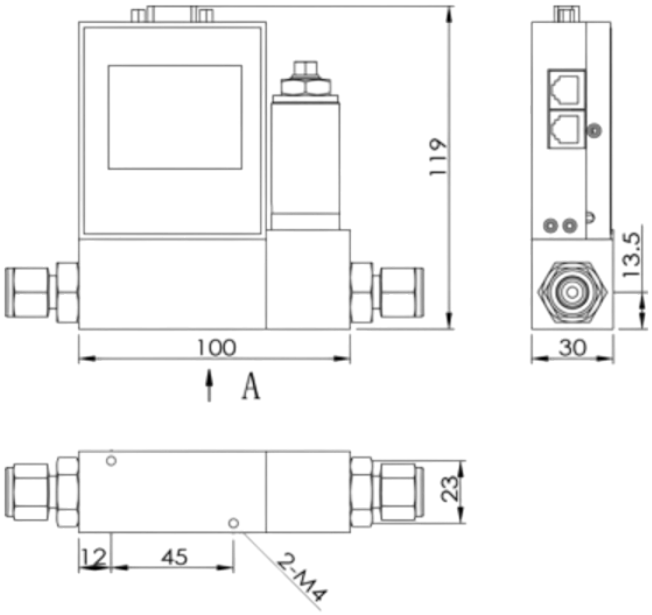
Product Selection

Serial number	LN20
Product type	[C] Pressure controller [M] Manometer
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa [Z] 10MPa (manometer only)
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[100K] 100KPa [300K] 300KPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232 [P]Profibus
Sealing material	[V] fluoroelastomer [T] Nitrile rubber [N] neoprene [Y] Other
Use connectors	[A] φ3 [B] φ6 [F] 1/8" [G] 1/4" [Y] Others, Please contact the manufacturer
Example of model selection	**LN20 M A M N 100K 007 A1 B1 5 8 V A**

The product size drawing



PRESSURE CONTROLLER LN20-500

HIGH PRECISION PRESSURE CONTROLLER (MEDIUM RANGE)

Product Introduction

Equipped with high-performance sensors and a digital circuit board, the LN20 series of pressure controllers provides higher accuracy and performance pressure control, and can accurately control the entire process by adjusting the setpoint, and supports the Profibus protocol in addition to the standard Modbus protocol.

Product Application

Applications: semiconductor production, scientific research experiments, biomedicine, energy and chemical industry, leak testing, fuel cells, vacuum coating and process control, etc.

Product Overview

The LN20 series pressure controller/gauge is a straight-through design with a measurement range from 100KPa to 10MPA (absolute and gauge). Differential pressure transmitters are also available. This series of instruments has high accuracy and good repeatability, and is divided into two types: front pressure control and back pressure control.

The LN20 series comes standard with a pressure sensor and a digital circuit board that provides high accuracy, fast stability, and reliable pressure control, and this PC digital board has all the functions needed to control the pressure. In addition to the standard RS485 output signal, the LN20 also provides analog input/output signals, which can be adjusted to precisely control the entire process. The LN20 series pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±0.5%F.S	
	Pressure to range ratio	manometer	1:50
		Pressure controllers	1:20
	repeatability	≤0.1%	
	Sensor response time	0.2s	
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)	
	Operating temperature	-10~+70℃	
	Temperature sensitivity	0.1%FS/℃	
	Leakage rate	1×10^{-9} SCCS He	
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)	
		<0.6 KPa (differential pressure sensor)	
	Warm-up time	Negligible	
Mechanical components	Material	stainless steel	
	Process connections	G3/8"	
	Sealing material	Viton/Nitrile/Neoprene/Others	
	Ingress Protection (Housing)	IP40	
Electrical characteristics	power supply	15~24Vdc	
	Digital output	RS485/RS232, profibus protocol	
	Electrical connections	DB9	

LN20-500 Pressure Controller (Medium Range:300KPa~500KPa)

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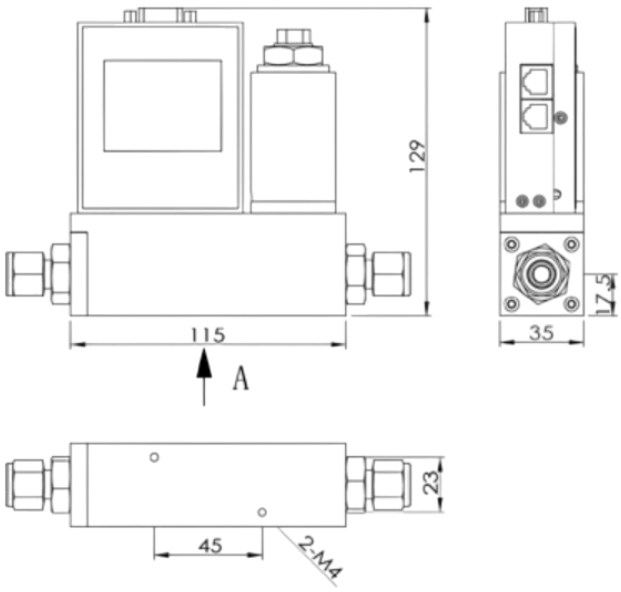
Product Selection

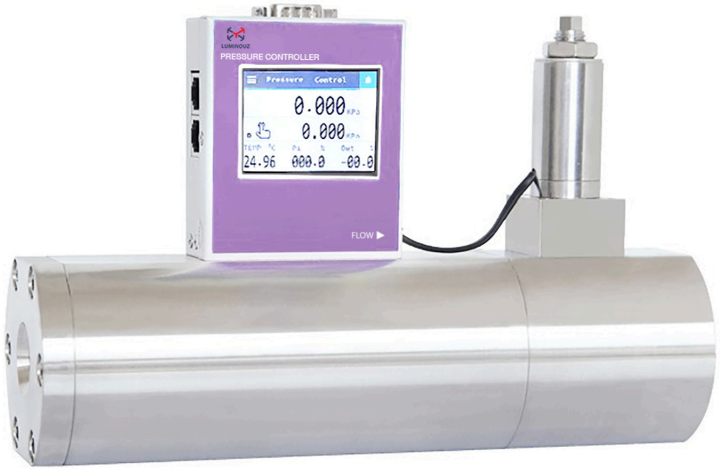
Serial number	LN20
Product type	[C] Pressure controller [M] Manometer
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa [Z] 10MPa (manometer only)
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[300K] 300KPa [500K] 500KPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232 [P]Profibus
Sealing material	[V] fluoroelastomer [T] Nitrile rubber [N] neoprene [Y] Other
Use connectors	[A] φ3 [B] φ6 [F] 1/8" [G] 1/4" [Y] Others, Please contact the manufacturer
Example of model selection	**LN20 M A M N 500K 007 A1 B1 5 8 V A**

The product size drawing



PRESSURE CONTROLLER LN20-10000

HIGH PRECISION PRESSURE CONTROLLER (LARGE RANGE)



Product Introduction

Equipped with high-performance sensors and a digital circuit board, the LN20 series of pressure controllers provides higher accuracy and performance pressure control, and can accurately control the entire process by adjusting the setpoint, and supports the Profibus protocol in addition to the standard Modbus protocol.

Product Application

Applications: semiconductor production, scientific research experiments, biomedicine, energy and chemical industry, leak testing, fuel cells, vacuum coating and process control, etc.

Product Overview

The LN20 series pressure controller/gauge is a straight-through design with a measurement range from 100KPa to 10MPA (absolute and gauge). Differential pressure transmitters are also available. This series of instruments has high accuracy and good repeatability, and is divided into two types: front pressure control and back pressure control.

The LN20 series comes standard with a pressure sensor and a digital circuit board that provides high accuracy, fast stability, and reliable pressure control, and this PC digital board has all the functions needed to control the pressure. In addition to the standard RS485 output signal, the LN20 also provides analog input/output signals, which can be adjusted to precisely control the entire process. The LN20 series pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±0.5%F.S	
	Pressure to range ratio	manometer	1:50
		Pressure controllers	1:20
	repeatability	≤0.1%	
	Sensor response time	0.2s	
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)	
	Operating temperature	-10~+70℃	
	Temperature sensitivity	0.1%FS/℃	
	Leakage rate	1×10^{-9} SCCS He	
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)	
		<0.6 KPa (differential pressure sensor)	
	Warm-up time	Negligible	
Mechanical components	Material	stainless steel	
	Process connections	G3/8"	
	Sealing material	Viton/Nitrile/Neoprene/Others	
	Ingress Protection (Housing)	IP40	
Electrical characteristics	power supply	15~24Vdc	
	Digital output	RS485/RS232, profibus protocol	
	Electrical connections	DB9	

LN20-10000 pressure controller (large range: 1MPa~10MPa).

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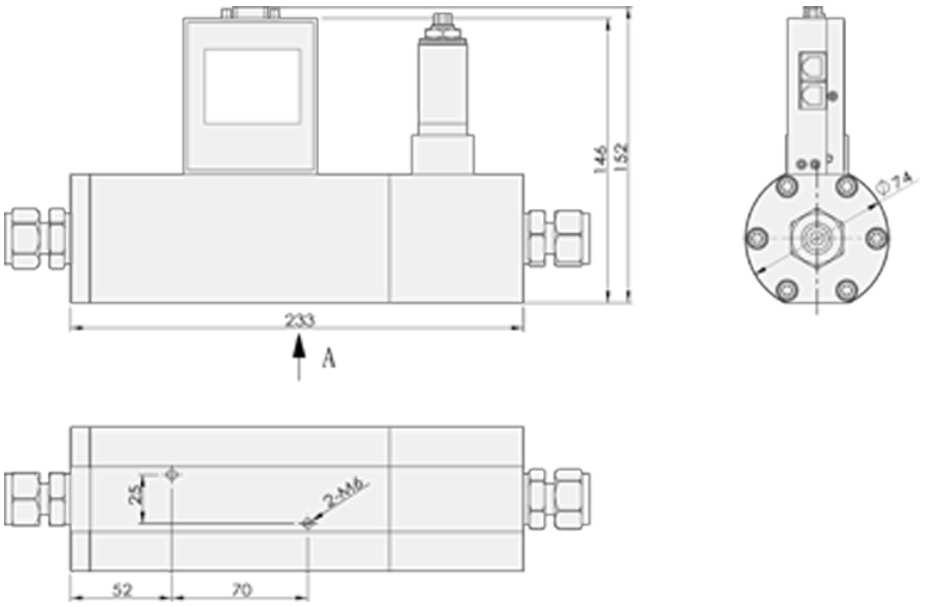
Product Selection

Serial number	LN20
Product type	[C] Pressure controller [M] Manometer
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa [Z] 10MPa (manometer only)
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[1M] 1MPa [5M] 5MPa [10M] 10MPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232 [P]Profibus
Sealing material	[V] fluoroelastomer [T] Nitrile rubber [N] neoprene [Y] Other
Use connectors	[A] φ3 [B] φ6 [F] 1/8" [G] 1/4" [Y] Others, Please contact the manufacturer
Example of model selection	**LN20 M A M N 5M 007 A1 B1 5 8 V A**

The product size drawing



PRESSURE CONTROLLER LN20D-L

DUAL VALVE PRESSURE CONTROLLER (LOW RANGE)

Product Introduction

The LN20D dual-valve pressure controller integrates two solenoid valves, the inlet valve introduces the process gas into the chamber to maintain the pressure in the confined space, and when the pressure is too high, the pressure relief valve opens by itself for pressure relief, quickly and accurately controlling the stability of the pressure while avoiding gas waste.

Product Application

Applications: semiconductor production, scientific research experiments, biomedicine, energy and chemical industry, leak testing, fuel cells, vacuum coating and process control, etc.

Product Overview

The LN20D dual-valve pressure controller integrates two solenoid valves, the inlet valve introduces the process gas into the chamber to maintain the pressure in the confined space, and when the pressure is too high, the pressure relief valve opens by itself for pressure relief, quickly and accurately controlling the stability of the pressure while avoiding gas waste.

LN20D comes standard with a pressure sensor and digital circuit board to provide high-precision, fast, stable, and reliable pressure control, and this PC digital board has all the functions needed to control the pressure. In addition to the standard RS485 output signal, the LN20D also provides analog input/output signals, which can be adjusted to precisely control the entire process.

At the same time, the touchscreen display makes operation more convenient. LN20D dual-valve pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control. We have different series of control valves for specific applications. Standard direct control valves are used for general applications, pilot valves are used for high flow rate applications, and dual valves are used for pressure stabilization and relief applications.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±0.5%F.S
	Pressure to range ratio	1:50
	repeatability	≤0.1%
	Sensor response time	0.2s
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)
	Operating temperature	-10~+70℃
	Temperature sensitivity	0.1%FS/℃
	Leakage rate	1×10^{-9} SCCS He
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)
		<0.6 KPa (differential pressure sensor)
	Warm-up time	Negligible
Mechanical components	Material	stainless steel
	Process connections	G3/8"
	Sealing material	Viton/Nitrile/Neoprene/Others
	Ingress Protection (Housing)	IP40
Electrical characteristics	power supply	15~24Vdc
	Digital output	RS485/RS232
	Electrical connections	DB9

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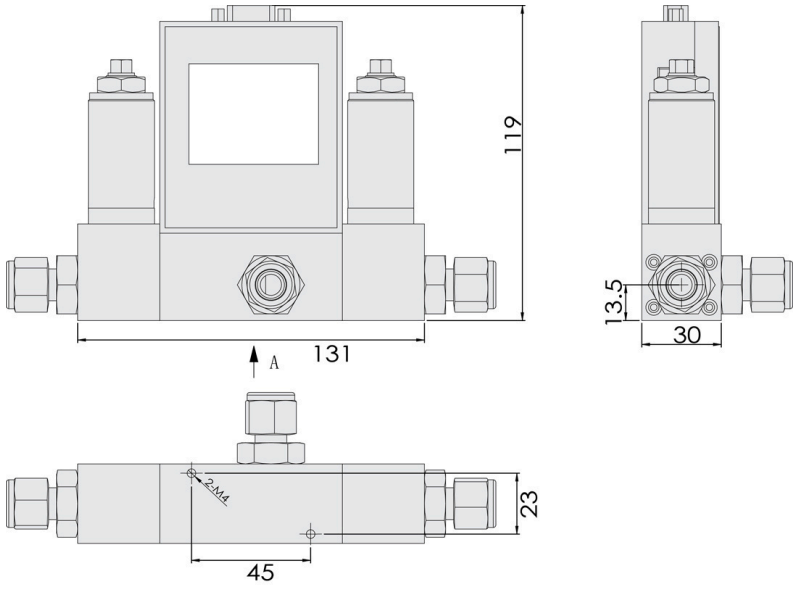
Product Selection

Serial number	LN20D
Product type	[C] Pressure controller
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[100K]100KPa [1M]1MPa [5M]5MPa [10M]10MPa [15M]15MPa [20M]20MPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232 [P]Profibus
Sealing material	[V] fluoroelastomer [T] Nitrile rubber [N] neoprene [Y] Other
Use connectors	[A] φ3 [B] φ6 [F] 1/8" [G] 1/4" [Y] Others, Please contact the manufacturer
Example of model selection	**LN20D M A M N 5M 007 A1 B1 5 8 V A**

The product size drawing



PRESSURE CONTROLLER LN20D-M

DUAL VALVE PRESSURE CONTROLLER (MEDIUM RANGE)

Product Introduction

The LN20D dual-valve pressure controller integrates two solenoid valves, the inlet valve introduces the process gas into the chamber to maintain the pressure in the confined space, and when the pressure is too high, the pressure relief valve opens by itself for pressure relief, quickly and accurately controlling the stability of the pressure while avoiding gas waste.

Product Application

Applications: semiconductor production, scientific research experiments, biomedicine, energy and chemical industry, leak testing, fuel cells, vacuum coating and process control, etc.

Product Overview

The LN20D dual-valve pressure controller integrates two solenoid valves, the inlet valve introduces the process gas into the chamber to maintain the pressure in the confined space, and when the pressure is too high, the pressure relief valve opens by itself for pressure relief, quickly and accurately controlling the stability of the pressure while avoiding gas waste.

LN20D comes standard with a pressure sensor and digital circuit board to provide high-precision, fast, stable, and reliable pressure control, and this PC digital board has all the functions needed to control the pressure. In addition to the standard RS485 output signal, the LN20D also provides analog input/output signals, which can be adjusted to precisely control the entire process.

At the same time, the touchscreen display makes operation more convenient. LN20D dual-valve pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control. We have different series of control valves for specific applications. Standard direct control valves are used for general applications, pilot valves are used for high flow rate applications, and dual valves are used for pressure stabilization and relief applications.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±0.5%F.S
	Pressure to range ratio	1:50
	repeatability	≤0.1%
	Sensor response time	0.2s
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)
	Operating temperature	-10~+70℃
	Temperature sensitivity	0.1%FS/℃
	Leakage rate	1×10^{-9} SCCS He
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)
		<0.6 KPa (differential pressure sensor)
	Warm-up time	Negligible
Mechanical components	Material	stainless steel
	Process connections	G3/8"
	Sealing material	Viton/Nitrile/Neoprene/Others
	Ingress Protection (Housing)	IP40
Electrical characteristics	power supply	15~24Vdc
	Digital output	RS485/RS232
	Electrical connections	DB9

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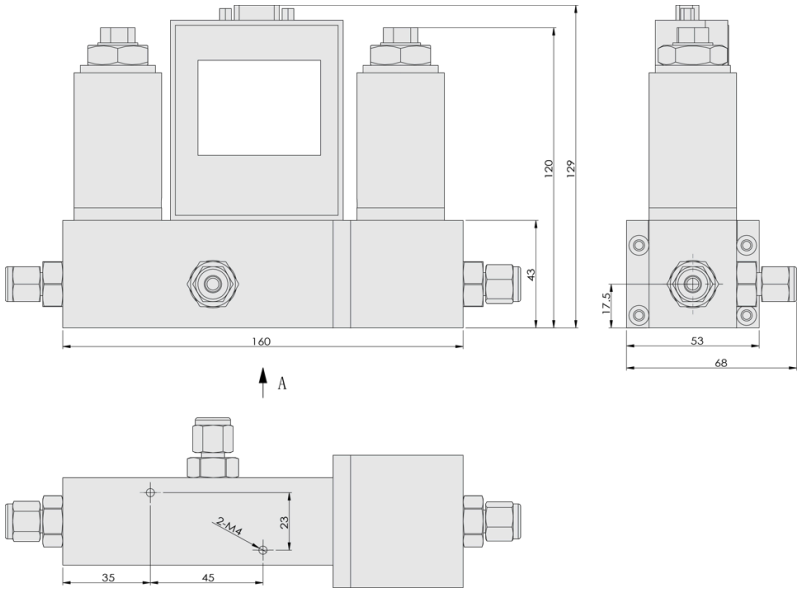
Product Selection

Serial number	LN20D
Product type	[C] Pressure controller
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[-100K]100KPa [1M]1MPa [5M]5MPa [10M]10MPa [15M]15MPa [20M]20MPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232
Sealing material	[V] fluoroelastomer [T] Nitrile rubber [N] neoprene [Y] Other
Use connectors	[A] φ3 [B] φ6 [F] 1/8" [G] 1/4" [Y] Others, Please contact the manufacturer
Example of model selection	**LN20D M A M N 5M 007 A1 B1 5 8 V A**

The product size drawing



PRESSURE CONTROLLER LN20D-B

DUAL VALVE PRESSURE CONTROLLER (LARGE CAPACITY)

Product Introduction

The LN20D dual-valve pressure controller integrates two solenoid valves, the inlet valve introduces the process gas into the chamber to maintain the pressure in the confined space, and when the pressure is too high, the pressure relief valve opens by itself for pressure relief, quickly and accurately controlling the stability of the pressure while avoiding gas waste.

Product Application

Applications: semiconductor production, scientific research experiments, biomedicine, energy and chemical industry, leak testing, fuel cells, vacuum coating and process control, etc.

Product Overview

The LN20D dual-valve pressure controller integrates two solenoid valves, the inlet valve introduces the process gas into the chamber to maintain the pressure in the confined space, and when the pressure is too high, the pressure relief valve opens by itself for pressure relief, quickly and accurately controlling the stability of the pressure while avoiding gas waste.

LN20D comes standard with a pressure sensor and digital circuit board to provide high-precision, fast, stable, and reliable pressure control, and this PC digital board has all the functions needed to control the pressure. In addition to the standard RS485 output signal, the LN20D also provides analog input/output signals, which can be adjusted to precisely control the entire process.

At the same time, the touchscreen display makes operation more convenient. LN20D dual-valve pressure controller can be equipped with an integrated control valve or a split control valve. It is a proportional solenoid control valve with ultra-fast and smooth control. We have different series of control valves for specific applications. Standard direct control valves are used for general applications, pilot valves are used for high flow rate applications, and dual valves are used for pressure stabilization and relief applications.

Product Overview

Technical parameters	Accuracy (including linearity and hysteresis)	±0.5%F.S
	Pressure to range ratio	1:50
	repeatability	≤0.1%
	Sensor response time	0.2s
	Control stability	≤±0.05% F.S (Measurement condition: 1 L/min N2)
	Operating temperature	-10~+70℃
	Temperature sensitivity	0.1%FS/℃
	Leakage rate	1×10^{-9} SCCS He
	Bearing influence(90° variation)	<0.03 KPa (Absolute/Gauge Sensor)
		<0.6 KPa (differential pressure sensor)
	Warm-up time	Negligible
Mechanical components	Material	stainless steel
	Process connections	G3/8"
	Sealing material	Viton/Nitrile/Neoprene/Others
	Ingress Protection (Housing)	IP40
Electrical characteristics	power supply	15~24Vdc
	Digital output	RS485/RS232
	Electrical connections	DB9

Product Selection

Serial number	LN20D
Product type	[C] Pressure controller
Type of pressure	[A] absolute pressure [G] gauge pressure
Withstand voltage range	[M] 3MPa
On-site display of the condition	[N]Without LCD [X] With LCD display
Pressure range	[1M]1MPa [5M]5MPa [10M]10MPa [15M]15MPa [20M]20MPa
The medium to be measured	See the density reference table for details
Flow input signal	[A1] 0~5VDC [A2] 4~20mA [A3] 1~5VDC
Output signal	[B1] 0~5VDC [B2] 4~20mA [B3]1~5VDC
Supply voltage	[5] ±15VDC [4]24VDC
Methods of Communication	[8] RS485 [2]RS232
Sealing material	[V] fluoroelastomer [T] Nitrile rubber [N] neoprene [Y] Other
Use connectors	[A] φ10 [B] φ12 [F] 16" [Y] Others, Please contact the manufacturer
Example of model selection	**LN20D M A M N 5M 007 A1 B1 5 8 V A**

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