The selection is detailed on page 6



PC70

Intelligent Pressure Controller



The measured medium pressure acts on the pressure sensing membrane of the sensor, the sensor will be amplified, A/D conversion, sent to the CPU for processing, and then analog or digital output, so as to achieve the purpose of pressure display, control, transmission; The microprocessor can automatically compensate the zero drift, temperature drift and nonlinearity of the instrument to ensure the high precision of the instrument under the operating conditions.

Product description

Robust and accurate field display

The durable stainless steel housing and independent battery power supply make it suitable for a wide range of flexible applications. Its precise and fast reading of pressure values makes it the perfect solution for field digital displays. The integrated pressure bar chart indicator function can store maximum and minimum pressure values for efficient analysis of its measured operating point.

Standard and enhanced

In low-light environments, the PC70 ADAPTS to the field environment with its backlight display.

In addition, it is also formulated with automatic shutdown function, zero setting function and password protection function.

Proven measurement techniques

LUDWIG has decades of experience in the manufacture of sensors that guarantee high precision and long-term reliability of stability and repeatability in the field of industrial pressure measurement.

Product application

Mechanical engineering Liquid and gas measurement Pumps and compressors Service industry

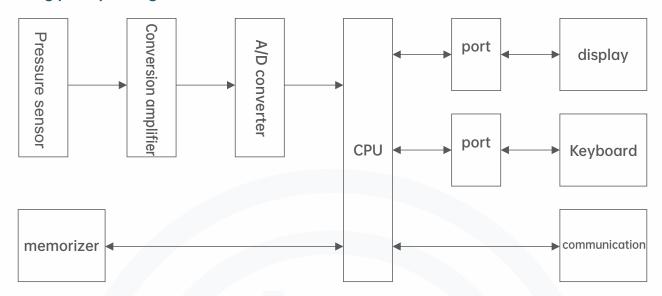
Functional characteristics

Pressure range: 0... 60 MPa Display accuracy: ≤± 0.5% ± 1 bit Option: Backlight





Working principle diagram



Range

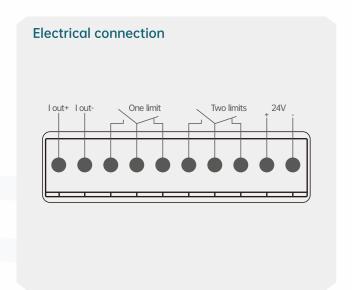
Mano	meter pressure						
MPa	Range	0 0.5	0 1	0 2	0 5	0 10	0 16
	Overvoltage limit	1	2	4	10	20	32
	Burst pressure	1.2	2.5	5	12	80	100
	Range	0 25	0 40	0 60	-	-	-
	Overvoltage limit	50	80	120	-	-	-
	Burst pressure	120	170	140	-	-	-
psi	Range	0 145	0 300	0 600	0 1,450	0 2,000	0 3,000
	Overvoltage limit	290	580	1,450	2,900	4,640	7,250
	Burst pressure	360	725	1,740	11,600	14,500	17,400
	range	0 5,000	0 7,500	0 10,0001)	-	-	-
	Overvoltage limit	11,600	17,400	21,750	-	-	-
	Burst pressure	24,650	34,800	43,500	-	-	-

Hardware function

Backlight

The PC70 is backlit, so it can be light even in poor light conditionsLoose read display value.



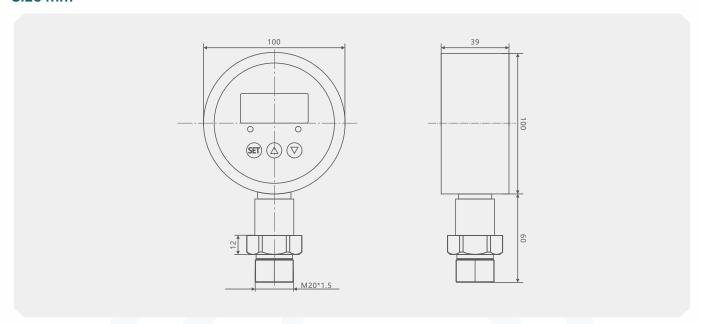


Technical parameter

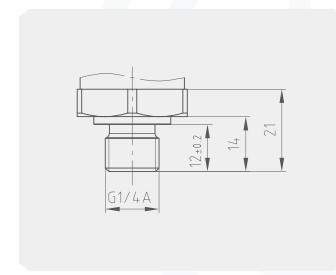
Power source	24V DC					
material	304SS/316L					
Reference condition						
■ Temperature	535°C					
Atmospheric pressure	8.6010.60Ρα					
■ Humidness	< 80% r.h. (noncondensing)					
■ Dial position	In the vertical mounting position, calibrate downward by process connection					
Accuracy						
Accuracy under	≤±0.5 %Full scale, ± 1 bit					
reference conditions	Includes nonlinearity, hysteresis, zero offset and end value deviation (measurement errors according to IEC					
Zero calibration accuracy	≤±0.1%FS (Power-on reset)					
■ Zero adjustment	≤±20% FS (Zero adjustment of DG-10-E peeling weighing function)					
■ The temperature error	The mean temperature deviation of zero: ≤±0.15 % /10 K					
is 5 35 ℃	The mean temperature deviation of the range: ≤±0.15 % /10 K					
Long-term stability	≤±0.2% FS /年					
Process connection						
■ ISO1179-2 (Older versions conform to DIN 3852-E)	G1/4A					
■ EN 837	G1/4B					
je.	G1/2B					
ANSI/ASME B1.20.1	1/4NPT					
	1/2NPT					
Protection class (according to IEC60259)	IP65					

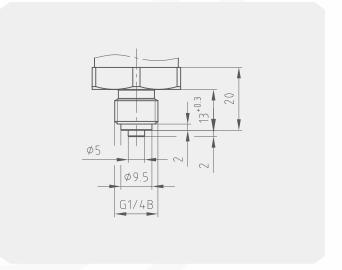


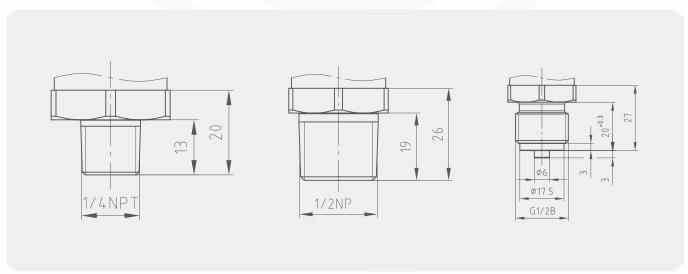
Size mm



Process connection









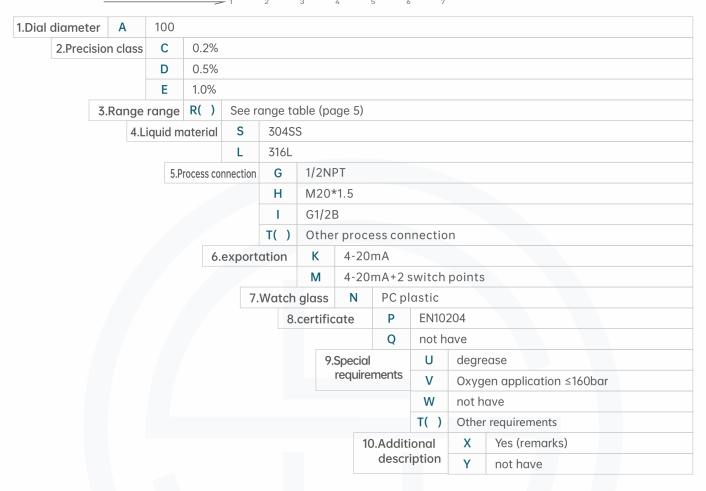
Attachments

Description						
0	Rubber cover (black)					
	Minimess coupler Maximum pressure strength 63MPa					
000	Sealing sleeve for process connection, according to ISO1179-2 (older DIN 3852-E) The material is NBR Thread size G ¼ A ISO1179-2 standard (older version according to DIN 3852-E)					

Range table

Positive pressure	code	MPa	code	Bar	code	kPa	code	kg/cm²	code	Psi
	MP001	0/0.1	BP001	0/1	KP001	0/100	GP001	0/1	PP1E5	0/15
	MP1E6	0/0.16	BP1E6	0/1.6	KP1E6	0/160	GP1E6	0/1.6	PP003	0/30
	MP2E5	0/0.25	BP2E5	0/2.5	KP2E5	0/250	GP2E5	0/2.5	PP006	0/60
	MP004	0/0.4	BP004	0/4	KP004	0/400	GP004	0/4	PP010	0/100
	MP006	0/0.6	BP006	0/6	KP006	0/600	GP006	0/6	PP016	0/160
	MP010	0/1	BP010	0/10	KP010	0/1000	GP010	0/10	PP020	0/200
	MP016	0/1.6	BP016	0/16	KP016	0/1600	GP016	0/16	PP030	0/300
	MP025	0/2.5	BP025	0/25	KP025	0/2500	GP025	0/25	PP040	0/400
	MP040	0/4	BP040	0/40	KP040	0/4000	GP040	0/40	PP060	0/600
	MP060	0/6	BP060	0/60	KP060	0/6000	GP060	0/60	PP100	0/1000
	MP100	0/10	BP100	0/100	KP100	0/10000	GP100	0/100	PP150	0/1500
	MP160	0/16	BP160	0/160	KP160	0/16000	GP160	0/160	PP200	0/2000
	MP250	0/25	BP250	0/250	KP250	0/25000	GP250	0/250	PP300	0/3000
	MP400	0/40	BP400	0/400	KP400	0/40000	GP400	0/400	PP400	0/4000
	MP600	0/60	BP600	0/600	KP600	0/60000	GP600	0/600	PP600	0/6000

PC70-Selection composition
Selection example PC70 A / E /MP001/ S / H / K / N



Instructions:

It indicates that the dial diameter of PC70 intelligent pressure controller is 100mm, the accuracy level is 1%, the measuring range is 0~0.1MPa, the liquid material is 304 stainless steel, the process connection is M20*1.5, the output is 4-20mA, tWatch glass is PC plastic, and the item 8/9/10 in the above table is not required.

Product Certification

Compliance and approval; Rodeweig pressure gauges meet key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;



