

Model: 3321



Application:

3321 is a high-precision Intelligent Pressure Calibrator, which is composed of high-precision pressure measurement chips, DC24 power supply, rechargeable battery protection circuit, hart communication modules and intelligent digital pressure module etc. It can measure the pressure, compound pressure, absolute pressure and differential pressure applications. It is ideal for service:

- *Maintenance and service facilities
- *Calibration service companies and service industry
- *Simple calibrations directly on site
- *Calibration of pressure transmitters and transducers, differential pressure transmitters, pressure gauges etc.

Special Feature:

- Pressure range up to 2500bar
- Large, easy to read dual line display with 6-digit resolution
- White backlight and RS232 communication port
- Current measurement: 0-25mA
- Nine measurement: 0-25 V
- Ideal for pressure transmitters and transducers
- Hart communication
- Various Pressure Units selectable
- Zero and Full Span recalibration function
- Rechargeable lithium battery or AC adapter
- Data logging function, store measuring value
- Temperature compensating to keep accuracy

Specification:

- Accuracy: +/-0.025%, +/-0.05% for option
- Electric signal: Current measurement: 0-25mA
- Voltage measurement: 0-25 V
- DC output: DC24V
- Operating temperature:-10°C to 50°C with temperature compensation
- Operating Humidity: <95%
- Storing temperature:-20°C to 70°C
- Display: 6 digits big LCD with back light
- Auto Off can be reset
- The backlight time adjustable
- Pressure unit: psi, bar, mbar, kgf/cm²,Pa, kPa, Mpa, mmH₂O, mmHg, selectable
- Power Battery: One piece lithium battery 8.4Vdc, charged Battery life:80 hours, rechargeable from back

Data/Communication: RS232

Data logging: Calibration record of 30 times of testing

Sensor: Silicone sensor

Housing Case material: Plastic, with rubber cover

Wetted parts: 316 Stainless steel

Pressure connection 1/4"NPT male, M20×1.5 male bottom entry as standard, Other connections customized

Over pressure alarm: 110% of Full Scale

Dimension: 95mm x 49mm x 166mm

Net Weight: 806g

Certificate: CE, EX

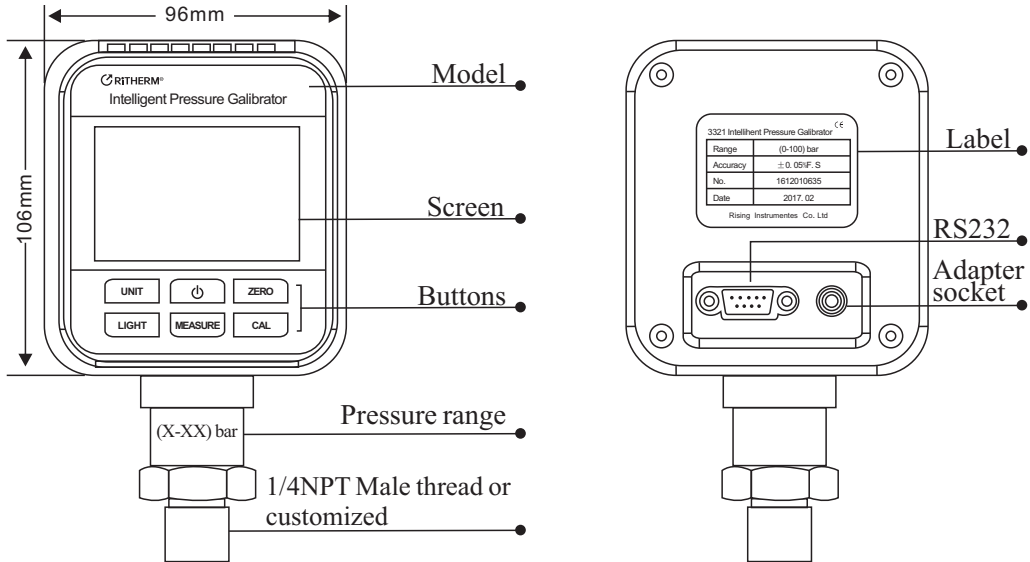
Range, accuracy and working media available

Pressure Range		Accuracy available	Media
psi	bar		
0-10	0-0.7	0.025,0.05	Air
0-15	0-1	0.025,0.05	Air
0-30	0-2	0.025,0.05	Air, liquid
0-60	0-4	0.025,0.05	Air, liquid
0-100	0-7	0.025,0.05	Air, liquid
0-200	0-14	0.025,0.05	Air, liquid
0-300	0-20	0.025,0.05	Air, liquid
0-500	0-35	0.025,0.05	Air, liquid
0-600	0-40	0.025,0.05	Air, liquid
0-1000	0-70	0.025,0.05	Air, liquid
0-2000	0-140	0.025,0.05	Air, liquid
0-3000	0-200	0.025,0.05	Air, liquid
0-5000	0-350	0.025,0.05	Air, liquid
0-6000	0-400	0.025,0.05	Air, liquid
0-10000	0-700	0.025,0.05	Air, liquid
0-15000	0-1000	0.025,0.05	Air, liquid
0-24000	0-1600	0.05	Air, liquid
0-37000	0-2500	0.05	Air, liquid







Compound Range		Accuracy available	Media
psi	bar		
-0.4-0.4	-0.025-0.025	0.025,0.05	Air
-0.8-0.8	-0.05-0.05	0.025,0.05	Air
-1.5-1.5	-0.1-0.1	0.025,0.05	Air
-6-6	-0.4-0.4	0.025,0.05	Air
-15-15	-1-1	0.025,0.05	Air

or other equivalent pressure range

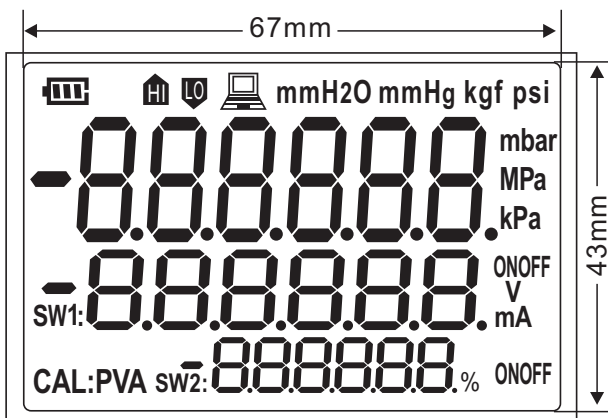
Drawing:






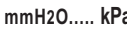





Button Introduction

-  Power on/off
-  Back light.
-  kPa, mmHg、 mmH2O、 bar、 mbar、 psi、 kgf/cm2、 MPa and Pa selectable.
-  Back to zero
-  Zero and full span calibration and linear revision.(Do not use this button when unnecessary.)
-  measurement for pressure, current, temperature, press this button to choose your measuring function

Display



Display definition:

-  the mark of PC connection
-  status of charge, only be seen when low power
-  displays pressure value
-  mmH2O..... kPa 9 pressure units selectable
-  measuring electricity value, sw1 value and menu
-  displays measuring current/voltage units
-  displays measuring sw2 value and menu
-  shows the communication status process
-  88.8°C current ambient temperature

HART

When using 3321 Calibrated HART Pressure transmitter

- (1) Pressure transmitter must be HART Intelligent transmitter and it is current type.
- (2) The power supply is provided by 3321 inside 24V .
- (3) Transmitter 250Ω The sampling resistor is provided by 3321 inside.

Option:

1. Calibration report
2. Certificate of conformity
3. Adaptor
4. Pressure pump
5. Software and cable for RS232 communication

How to order:

Model	-	Accuracy	-	Process connection	-	Range	-	Option
3321	-	0.025%	-	1/4" NPT	-	See	-	See
	-	0.05%	-	1/4" BSP	-	pressure	-	Option
	-		-	1/2" NPT	-	Range	-	
	-		-	1/2" BSP	-		-	
	-		-	M20x1.5	-		-	