XI'AN XINYI INSTRUMENT TECHNOLOGY CO.,LTD









XI' AN XINYI INSTRUMENT TECHNOLOGY CO.,LTD is one of the most professional manufacturers of calibration instruments in China with 10 years experience. We have been successfully manufactured Pressure/ Temperature calibration instruments such as high accuracy Digital Pressure Gauge, Pressure Calibrator, Pressure Calibration Comparator Pumps as well as Process Calibrator and Temperature Calibrator Dry Blocks. So far, "XINYI" brand calibration instruments have been used in over 70 countries worldwide and enjoy good reputation. With the corporate philosophy of "Accurate Calibration, Perfect Service" going forward, we will continue developing high quality calibration instruments with the best service to more and more customers worldwide.

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pressure gauge

YW-100B Digital Pressure Gauge

Main Features and Technical Data:

Accuracy: 0.05% FS (0.02%FS 0.5%FS 0.4%FS 0.1%FS is optional);

Pressure range: $(-1 \sim 2500)$ bar, 36500psi

11 pressure units available:

kg/cm2, inHg, inH2O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH2O

Five digital resolution display

Percentage bars indication for visual reference.

Backlight indicate time can be set

Storage 40 files, 40 data per file (option)

Zero function, Peak function

Pressure types: Gauge pressure, absolute pressure, differential pressure, compound pressure

Temperature display

Factory calibration report or Accredited calibration certificate Provided (option)

Storage temperature: $(-20 \sim 60)$ °C; Operating temperature: $(0 \sim 50)$ °C; Compensation temperature: $(0 \sim 50)$ °C; Relative humidity: <95%RH (no condensation)

Atmosphere Pressure: (86 ~ 101) kPa;

Media: Clean and dry and no-corrosive gas or liquid which is compatible with 316SS Power: 3.7 V rechargeable lithium battery, or 110/220V external power adapter Battery working time: 40 hours w/o loading 24V, 8 hours w/24V loading.

Pressure connection: M20x1.5, 1/4"BSP, 1/4"NPT; 1/2" NPT, 1/2" BSP Male Thread

Dimensions: Header (Φ 120× 45) mm, total length 190mm;

Net Weight: 0.7KG









Metrology Grade Digital Pressure Gauge Axial Digital Pressure

Micro Differential Digital Pressure Gauge

Storag Type Pressure Gauge

Also support Diaphragm Explosion proof and Customization







YZQ-120 Intelligent Pressure Calibrator HART - Reference Gauges

Main Features and Technical Data:

Accuracy: 0.05% FS (0.02%FS is optional); Pressure range: (-1 ~ 2500) bar, 36500psi

11 pressure units available:

kg/cm2, inHg, inH2O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH2O

Six digital resolution display

Percentage bars indication for visual reference.

Backlight indicate time can be set Storage 40 files, 40 data per file

Zero function, Peak function

Pressure types: Gauge pressure, absolute pressure, differential pressure, compound pressure

Temperature display

Factory calibration report or Accredited calibration certificate Provided

Storage temperature: $(-20 \sim 60)$ °C; Operating temperature: $(0 \sim 50)$ °C; Compensation temperature: $(0 \sim 50)$ °C; Relative humidity: <95%RH (no condensation)

Atmosphere Pressure: (86 ~ 101) kPa;

Media: Clean and dry and no-corrosive gas or liquid which is compatible with 316SS

Power: 7.4V rechargeable lithium battery, or 110/220V external power adapter

Battery working time: 40 hours w/o loading 24V, 8 hours w/24V loading.

Pressure connection: M20x1.5, 1/4"BSP, 1/4"NPT; 1/2" NPT, 1/2" BSP Male Thread

Dimensions: Header (Φ120× 45) mm, total length 190mm;

Net Weight: 0.7KG

Carrying Case and Rubber Protector Optional





Hand Pressure Pump

Hand operated pressure pump is a portable pressure pump.

Used for calibrating test instruments installed on site in industrial process and various pressure instruments used in control room.

It can also provide pressure source for pressure meter manufacturer's calibration table. All pressure transmitters within 1.6Mpa,

Pressure sensors and various pressure instruments can be manually operated pressure pump for calibration.

Name	Model	Range	Туре
Handheld Pressure Pump	Y039	0~1.6 Mpa	Pneumatic
	Y060	0~25 Mpa	Hydraulic
	Y061	-0.08~0 Mpa	Pneumatic
Handheld Vacuum	YFP-16	-0.08~1.6 MPa	Pneumatic
Pressure Pump	YFP-20	~0.08~2.0 Mpa	Pneumatic
	YFP-25	-0.08~2.5 Mpa	Pneumatic
60Mpa hand Pump	YHP-60	0-60Mpa	Hydraulic





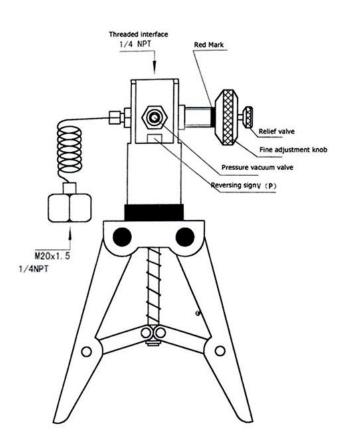


Diagram of pressure vacuum hand-operated pump YFP

XINY

Portable Pressure Calibration Pump

Portable pressure gauge calibrator 60Mpa

Model: YW-6/60 Type: Hydralic

Pressure range: -0.082~6Mpa/60Mpa

Minimum adjustable: 0.1Mpa

Medium: Transformer Oil Medicinal Castor Oil

Weight: 15KG



Portable Hydraulic Pressure Source 60Mpa 600Bar

Model: YWQ-1442 Type: Hydraulic

Pressure Range: 0-60 Mpa (70Mpa)

Minimum Adjustable: 10Kpa

Medium: Water or Oil Size: 290*150*110 MM

Weight: 2 KG



Portable Hydraulic Pressure Source 60Mpa 600Bar (Pre-pressurized)

Model: YWQ-1442S Type: Hydraulic

Pressure Range: 0-60 Mpa (70Mpa)

Minimum Adjustable: 10Kpa

Medium: Water or Oil Size: 290*150*110 MM

Weight: 3 KG



Portable Air Pressure Source 6 Mpa (Pre-pressurized)

Model: YWQ-1432 Type: Pneumatic

Pressure Range: -0.095~4~6Mpa Minimum Adjustable: 0.1Kpa

Medium: Air

Size:270*150*150 MM

Weight: 1.4KG





High Pressure air source Pump 16Mpa (Pre-pressurized)

Model: YWQ-1432S

Medium: Clean air (clean and non-corrosive gas) Pressure Range: $-0.095 \sim 16$ MPa (each gear)

Operating Temperature: 0~50 ℃

Size: 387*250*160MM

Weight: 5.76KG



Micro Pneumatic Dynamic Pressure Calibration Pump

Model: YWQ-1451A

Type: Air

Pressure Range: -50Kpa~50Kpa (-100~200Kpa)

Minimum Adjustable: 0.1pa

Medium: Air

Size: 195*80*70 MM Weight: 1.2 KG



Micro Pneumatic Dynamic Pressure Calibration Pump

Model: YWQ-1451B

Type: Air

Pressure Range: -50Kpa~50Kpa (-100~600Kpa)

Minimum Adjustable: 0.1pa

Medium: Air

Size: 270*210*150 MM

Weight: 2 KG





Desktop Hydraulic Pressure Source 100Mpa

Desktop Hydraulic Pressure Source

Model: YWQ-1441A (60Mpa) YWQ-1441B(100Mpa)

Type: Hydraulic

Pressure Range: 0-60 Mpa (100Mpa)

Minimum Adjustable: 0.1Kpa

Medium: Oil

Size:400*180*150 MM

Weight: 10 KG



Oxygen Gauge Pressure Gauge Dual-purpose Calibrator 60Mpa

Model: YW-40s/60s Type: Hydralic

Pressure Range: 0~40Mpa/60Mpa Minimum Adjustable: 50 Kpa

Medium: Transformer Oil or Pure water

Weight: 20KG



Desktop Manual Air Pressure Source 10Mpa

Model: YWQ-1431A($-0.095{\sim}4$) MPa YWQ-1431B($-0.095{\sim}6$) MPa YWQ-1431C($-0.095{\sim}10$) MPa

Type: Pneumatic

Pressure Range: -0.095~6~10Mpa

Minimum Adjustable: 10 pa

Medium: Air

Size: 300*300*150 MM

Weight: 10KG





Hydraulic High Pressure Calibration Pump

Model: YWQ-14811A (250Mpa) YWQ-1481B(300Mpa)

Type: Hydraulic

Pressure Range: 0-250 Mpa (3000Mpa)

Minimum Adjustable: 0.1Kpa

Medium: Oil

Size:420*360*150 MM

Weight: 12 KG



Piston Pressure Vacuum Gauges

YS-2.5, YS-6 piston pressure vacuum gauges are mainly used for testing 0.16, 0.25 and 0.4 precision pressure gauges in the range of -0.1~0.25MPa to -0.1~0.6MPa. The accuracy level of the pressure gauge is 0.05 or 0.02, and the working medium is gas.

Model: YS-2.5 (6)

Type: Air

Pressure Range: -0.1~0~0.25 (0.6) Mpa

Minimum Adjustable:

Medium: Air Weight: 10KG



Pressure Calibration Extension

Pressure range: (-0.095~160) MPa

The pressure expansion device is connected to the standard with a special connecting pipe, and the pressure or vacuum is output through the switch, and then output to the interface through the pressure pipe.

The device consists of pressure stop valve, quick interface, pressure relief valve and oil cup. The advantages of simple operation, reasonable structure and good sealing performance can be widely used in metering, instrument manufacturing and other industries.

Output port thread: M20 * 1.5 (customized)

Number of output ports: 5-bit output ports, 10 bit output ports, 30 bit output ports, 60 bit output ports, 80 bit output ports

(customized).





YWT Series Basic Piston Pressure Gauge (Dead Weight Tester) 100Mpa

YWT series basic piston pressure gauges can measure pressures up to 250MPa, mainly used in metrological verification laboratories to verify pressure instruments such as digital pressure gauges, pressure sensors, pressure transmitters, precision pressure gauges and ordinary pressure gauges. It is suitable for high-level measurement institutions, pressure instruments, instrument manufacturers and measurement departments of modern factories.



Features:

- Measuring range: 0.04~0.6MPa, 0.5~25MPa, 0.1~6MPa, 1~60MPa, 2~100MPa 2-160MPa 5-250MPa
- Accuracy level: 0.05, 0.02, 0.01, 0.005
- With pre-compression function, it is easy to pressurize at high pressure;
- The piston cylinder and piston cylinder are made of tungsten carbide material with high strength, high hardness and low temperature coefficient of linear expansion after careful grinding. The working environment temperature is wide and the performance is stable at 20±5°C;
- Oil medium lubrication, high sensitivity of piston;
- Super hard material, long service life of piston, negligible pressure deformation;
- Manufactured according to the user's local acceleration of gravity;
- Each weight has an adjustment cavity, which is convenient for periodic inspection and adjustment;
- 12mm cast aluminum machine, strong and stable;
- All stainless steel pipe joints are well sealed and there is no aging problem of plastic pipes;
- Adopt quick connector, easy to operate, easy to tighten without wrench;
- The working position of the piston is monitored by a displacement sensor, the up and down stroke of the piston is 0~3mm, and the instrument display has the advantages of being sensitive, eye-catching and accurate:
- Grade 0.05 is carbon steel weights, and grades 0.02 and above are non-magnetic stainless steel weights;

Model	YWT-0.6	YWT-6	YWT-25	YWT-60	YWT-100
Range (MPa)	0.04~0.6	0.1~6	0.5~25	1-60	2-100MPa
Lower limit (MPa)	0.04	0.1	0.5	1	2
Piston Nominal Area(cm2)	1	0.5	0.2	0.1	0.1
Weights (MPa)	0.01MPa×6Pcs 0.05MPa×10Pcs	0.1MPa×4Pcs 0.5MPa×11P cs	0.5MPa×4Pcs 2.5MPa×9Pcs	1MPa×4Pcs 5MPa×11Pcs	10MPa×9Pcs 5MPa×1Pcs 2MPa×1Pcs 1MPa×2Pcs
Weight (KG)	20	26	26	30	40
Medium	Transformer oil		Sebacate		



YS Series Economical Piston Pressure Gauge (**Dead Weight Tester**)

60Mpa

The pressure can be measured up to 60 Mpa and are mainly used in metrological verification laboratories to verify pressure instruments such as digital pressure gauges, pressure sensors, pressure transmitters, precision pressure gauges and ordinary pressure gauges. It is suitable for high-level measurement institutions, pressure instruments, instrument production enterprises and measurement departments of modern factories.



Modle		YS-6	YS-60	YS-250	YS-600
Range		0.04~0.6MPa	0.1~6MPa	0.5~25MPa	1~60MPa
Piston Area (cm2)		0.5	0.2	0.05	0.05
Pistons	Weight (Kg)	0.4	0.5	1	1
	Pressure (MPa)	0.04	0.1	0.5	1
Weights	Weight (Kg)	0.05: 0.25	0.5: 1	0.5: 1	0.5: 2.5
	Pressure (MPa)	0.01: 0.05	0.1: 0.5	0.5: 2.5	1: 5
	Quantity	6: 10	4: 11	4: 9	4: 11
Connector		M20×1.5	M20×1.5	M20×1.5	M20×1.5
Gross Weight		20KG	26KG	26KG	26KG
(KG)					



Pressure Calibrators Accessories

Special adapter set for instrument is applicable to instrument conversion of different specifications 1/4NPT /M20*1.5 male to various connectors as follows (25 pcs, case included)

- 1/4NPT male to various connectors
- Can be ordered as an entire kit or as individual parts (see datasheet)
- 1/2" NPT male, 1/4" BSP male, M20*1.5 male are available per request



Description	Max Pressure	Picture
Adapter, 1/4NPT male to 1/8BSP male	15,000 psi	
Adapter,1/4NPT male to 1/4BSP male	15.000 psi	
Adapter,1/4NPT male to 1/2BSP male	15,000 psi	
Adapter,1/4NPT male to 3/8BSP male	15,000 psi	
Adapter,1/4NPT male to M10X1.0 male	15,000 psi	
Adapter,1/4NPT male to M14X1.5 male	15,000 psi	
Adapter,1/4NPT male to M20X1.5 male	15,000 psi	
Adapter,1/4NPT male to 1/8NPT male	15,000 psi	
Adapter,1/4NPT male to 1/4NPT male	15,000 psi	
Adapter,1/4NPT male to 1/2NPT male	15,000 psi	
Adapter,1/4NPT male to 3/8NPT male	15.000 psi	
Adapter,1/4NPT male to 1/8BSP female	15,000 psi	
Adapter, 1/4NPT male to 1/4BSP female	15,000 psi	
Adapter,1/4NPT male to 1/2BSP female	15,000 psi	
Adapter,1/4NPT male to 3/8BSP female	15,000 psi	4
Adapter,1/4NPT male to M10X1.0 female	15,000 psi	
Adapter, 1/4NPT male to M14X1.5 female	15,000 psi	
Adapter,1/4NPT male to M20X1.5 female	15,000 psi	
Adapter, 1/4NPT male to 1/8NPT female	15.000 psi	
Adapter,1/4NPT male to 1/4NPT female	15.000 psi	
Adapter,1/4NPT male to 1/2NPT female	15,000 psi	
Adapter,1/4NPT male to 3/8NPT female	15,000 psi	
Hose Test Kit,5 feet flexible hose,15,000 psi, 1/4NPT male to 1/4NPT female hand tight quick connector	15,000 psi	
Adapter,1/4NPT male to right angle 1/4NPT female hand-tight quick connector	15,000 psi	
Adapter,1/4NPT male to hose barb	150 psi	The same



HART 475 communicator

This product is suitable for the communication operation of HART protocol smart transmitters and various HART standard protocol instruments. It is compatible with 275, 375, and 475. It can communicate with 1151, 3051, EJA, ABB and other imported instruments of HART protocol. It is also compatible with domestically produced instruments. Various smart pressure transmitters and smart meters with HART protocol.

New bus noise active processing circuit, better communication effect; Chinese and English can choose different models; Longer working time: five Nanfu No. 5 batteries can work continuously for 100-200 hours, or choose rechargeable type; TFT full color LCD display, the display is clearer and more delicate, (can be used for dim/night environment operation); The user can actively adjust the backlight brightness, which is more comfortable and saves power; Full function supports dozens of instruments: Rosemount's 1151, 3051, 248, 644, 3144, etc., as well as major brands such as ABB, Yokokawa EJA, etc.; Support shortcut keys: users can directly access related functions by using digital shortcut keys; Improved new shell design, more international product Features.



XINY1382 Temperature Calibrator / Dry Block

Portable temperature calibration furnace adopts high stability temperature control instrument, soaking block adopts alloy material with better thermal conductivity. In technology, it is synchronized with the advanced technology at home and abroad, and is in the leading position in the technology of insertion depth, horizontal temperature field, vertical temperature field and so on. When used in the required temperature range, it can easily set and accurately generate the required temperature. It has the characteristics of small size, fast heating, stable temperature control and pollution-free. It can check temperature sensors and instruments as a whole. Therefore, it is easy to carry, easy to use, and easy to fast and reliable temperature calibration. It is widely used in machinery, chemical industry, food, pharmaceuticals and other industries.





model	XinYI382-150A	XinYI382-150B	XinYI382-650	XinYI382-1200	
temperature range	-20℃~150℃	-30℃~150℃	50℃~650℃	300℃~1200℃	
	30~100:20min	30~100:20min	30~300:7min		
heating rate	30~150:40min	30~150:40min 30~150;40min 30-400:12min 30~650:25min		30~1200:75min	
Display accuracy	≤±0.1°C	≤±0.1°C	Below400℃:≤±0.35℃	≤ ±1.2 °C	
Display accuracy	210.1 C	210. 1 C	400-650°C:≤±0.5°C	=±1.2 C	
Insertion depth	160	mm	150mm	135mm	
Average heat block diameter	36mm	32mm	32mm	39mm	
Temperature field stability	≤±0.02°C	≤±0.02°C	≤±0.05°C	≤±0.2°C	
Horizontal temperature field	≤±0.05°C	≤±0.05°C	≤±0.05℃	≤±0.25℃	
Vertical temperature field	The deviation in the range of 50mm calculated from the bottom of the hole ofthe soaking block is 1 degree				
Temperature unit	°Cor F				
Temp Accuracy	0.10%				
Display resolution	0.01℃				
Maximum Power	Negative temperature type:300W, medium temperature type: 1200W, high temperature type:3000W				
Weight(Net Weight)	Negative temperature type:13kg, medium temperature type:11kg, high temperature type:11kg				
Weight (Containing	Negative temperature type:23kg, medium temperature type: 18kg, high temperature				
Packaging)	type:20kg Packaging includes aluminium box and transport wooden box				
Outine Size	Negative temperature type and high temperature type:310*190*340mm, medium temperature type:250*150*310mm				
Use Environment	Ambient temperature 0-50℃,relative humidity less than 95%(no condensation)				
Power Supply	220VAC±10%,45~60Hz				
Selection Function	Verification Data Recording and Exporting, upto 250 sensors, 2500 records, USB Device				
	Communication Interface(optionalfuntion)				