

Catalog

Handheld Process Calibrator Series

ET1625 High-Precision Multifunction Process Calibrator
ET1625H High-Precision Multifunction Process Calibrator (with hart function)
ET1615 High-Precision current and voltage Process Calibrator
ET1615H High-Precision current and voltage Process Calibrator (with hart function)
ET1610 High-Precision temperature Process Calibrator
ET2125 High-Precision Multifunction Process Calibrator
ET2110 High-Precision temperature process calibrator
ET2725A/2725B Multifunction Process Calibrator
ET2715A/2715B Current and voltage calibrator
ET2710 Temperature Calibrator
ET276X Series Benchtop thermotechnical Calibrator Desktop process calibrator

Multimeter Calibrator Series

ET030-E Multimeter Calibrator
ET-30B Multimeter Calibrator
ET-30D Multimeter Calibrator
New! ET3000-2A Multimeter calibrator (output 20A, Fixed frequency, upper limit 1kHz)
ET3000-2B Multimeter calibrator (output 20A, Continuous frequency, upper limit 2kHz)

Pressure calibrator series

ET-AY30 Precision pressure calibrator
ET-BY digital pressure gauge
ETYL140 /ETYL141/ETYL142 pressure pump
HART475 COMMUNICATE METER

Temperature Calibrator Series

New! ET2520 Ultra-low Temperature Series (-100-50, -80-50, -60-50)
ET2520N-100(-100-50) Dry Block temperature Calibrator
ET2520N-100(-80-50) Dry Block temperature Calibrator
ET2520N-100(-60-50) Dry Block temperature Calibrator
ET2520 series Touch-screen Dry Block temperature Calibrator
ET2520-160A (-20~160 degree) Dry Block temperature Calibrator
New! ET2520-160B (-30~160 degree) Dry Block temperature Calibrator
ET2520-180A (-20~180 degree) Dry Block temperature Calibrator
ET2520-180B (-30~180 degree) Dry Block temperature Calibrator
ET2520-660 (50~660 degree) Dry Block temperature Calibrator
2501 Touch-screen Dry Block temperature Calibrator
ET2501-150B (-30~150 degree) Dry Block temperature Calibrator

ET2501-150A (-20~150 degree) Dry Block temperature Calibrator

ET2501-650 (50~650 degree) Dry Block temperature Calibrator

ET2501-1200 (300~1200 degree) Dry Block temperature Calibrator

ET2501-1200B (100~1200 degree) Dry Block temperature Calibrator

ET385-050 Black body calibration furnace

ET251 zero Thermostat(Cold Junction Compensation)

ET38Series Intelligent Dry block temperature calibrator

ET3804 Intelligent Dry block temperature calibrator

ET3805 Intelligent Dry block temperature calibrator

New!

ET3131 series High-precision Thermometer

ET3141 Handheld Thermometer

Digital Thermostat Series

ET3860 Digital Thermostat(-80-300 , -60-180)

ET3860 Lead type digital thermometer

ET3871series standard thermostatic bath

ET3875 Seris Portable Refrigeration Thermostat Indicator(-40-95degree

ET3875 Seris Portable Thermostatic Oil bath

ET3876 protable cooling Therostatic bath (-40 to 950degree)

ET series low temperature water bath 7.5L~30L -5.00°C~-80.00°C

ECT series Constant temperature bath for rotational viscometer

ET3916 multi channel **Temperature Detector**

High Resistance box /Megger calibration device

New!

ZX79F High Resistance BOX

ZX119-110K /Megger calibration device

Humidity Generator

New!

ET1000S humidity Generator

portable temperature and humidity calibration box

Wireless Temperature Verification

ET3930-T200 wireless temperature


ET3930-P200 wireless Pressure

IR Blackbody furnace

Bx-500 IR calibrator (50-500degree)

Handheld Process Calibrator Series

ET1625 High-Precision Multifunction Process Calibrator

<p>ET1625 High-Precision Multifunction Process Calibrator</p> 	<p>ET1625 0.01 Precision</p>	<p>ET1625H 0.01 Precision</p>
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ET1625 high-precision multi-function process calibrator is a high-precision, hand-held process signal measurement/output instrument, which can simultaneously measure and output voltage, current, resistance, thermocouple, thermal resistance, frequency, pulse, switch value, etc. Industrial process signal; built-in HART function, can completely replace the HART Communicator.


The product can replace the measurement and calibration instruments such as current signal source, voltage signal source, resistance box, electronic potentiometer, frequency meter, HART hand communicator, etc. It is mainly used in industrial field signal calibration and fault diagnosis; it is also suitable for signal measurement and calibration in chemical industry, military industry and various research institutes and laboratories. This product is a powerful, standard-grade industrial process detection instrument for field and laboratory use.

- Measurement/output: voltage, current, resistance, frequency, pulse, switch value, among which current output supports active and passive;
- Simulate thermal resistance and thermocouple in the form of temperature;
- Can simulate two-wire transmitter;
- Resistance measurement can be selected in two, three and four-wire ways;
- Accuracy is 0.01%;
- Two mutually isolated channels, support synchronous measurement and output;
- Can provide manual step, automatic step, automatic step and manual step function;


- Using 3.5-inch TFT LCD screen with a resolution of 480*320;
 - The measurement and output data can be displayed at the same time, and the measurement or output data can also be displayed separately;
 - 5000mAh lithium battery power supply;
 - With automatic power off function, time can be set, suitable for on-site use;
 - Provide DC24V loop power supply for on-site debugging;
 - The thermocouple measurement and output provide built-in, external and manual cold junction temperature compensation methods, of which the external reference terminal adopts A-grade Pt100 platinum resistance;
 - Thermocouple Type: R,S,K,E,J,T,N,B,L,U,XK,WRE325,WRE526;
 - Type of thermal resistance:
PT100-385,PT100-392,PT100-JIS,PT200-385,PT500-385,PT1000-385,
Cu10,Cu50, Cu100,Ni120, BA1,BA2,PT10;
- HART function (only ET1625H and ET1615H support this function): It can completely replace the HART hand-held communicator, set or calibrate the range of the smart transmitter, and force the output current of the smart transmitter to be at a fixed value (such as 20mA, 12mA) , 4mA), set the linear or square root function, can perform HART reset on the pressure sensor of the transmitter, etc.;

ET1615 High-Precision current and voltage Process Calibrator

<p>ET1615 High-Precision current and voltage Process Calibrator</p> 	<p>ET1615 0.01Precision</p>	<p>ET1615H 0.01Precision</p>
<p>ET1610 High-Precision temperature Process Calibrator</p>	<p>ET1610 0.01Precision</p>	

		
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ET2125 High-Precision Multifunction Process Calibrator


<p>ET2125 High-Precision Multifunction Process Calibrator</p> 	<p>ET2125B 0.01 Precision</p>	<p>ET2125C 0.02 Precision</p>
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Measurement/output: voltage, current, resistance, frequency, pulse, **switching values**, in which the current output supports active and passive;

220V measurement function
 200mA AC current measurement function
 Simulating RTD and thermocouple through temperature form
 Simulating 2-wire transmitter
 Resistance measurement options: 2 wires, 3 wires, 4 wires
 Accuracy: 0.01%, 0.02%
 Two isolated channels support measure and output **simultaneously**
 Providing manual step, automatic step, automatic step and manual step functions.
 3.5 TFT LCD screen, resolution rate 480*320
 Measurement and output data can be displayed simultaneously or separately;
 5000mAh Lithium battery
 Automatic power shutdown function, shutdown time can be set, and suitable for on-site use
 DC 24V loop power for on-site use
 Thermocouple measurement and output provide three kinds of cold junction temperature compensation methods: built-in, external and manual, among them, external reference junction adopts A class Pt100 Platinum resistance, which can

correct temperature through inputting certificate value
 Thermocouple types: R,S,K,E,J,T,N,B,L,U,XK,WRE325,WRE526;
 RTD types:PT100-385,PT100-392,PT100-JIS,PT200-385,PT500-385,PT1000-385,
 Cu10,Cu50, Cu100,Nil20, BA1,BA2,PT10;

ET2115 High-Precision Loop Precess Calibrator

ET2115 High-Precision Loop Precess Calibrator 	ET2115B 0.01Precision	ET2115C 0.02Precision
Measurement/output: voltage, current, frequency, pulse, switching values, in which the current output supports active and passive. 220V measurement function. 200mA AC current measurement function. Simulating 2-wire transmitter. Accuracy: 0.01%, 0.02%. Two isolated channels support measure and output simultaneously. Providing manual step, automatic step, automatic step and manual step functions. 3.5 TFT LCD screen,resolution rate 480*320. Measurement and output data can be displayed simultaneously or separately. 5000mAh Lithium battery. Automatic power shutdown function, shutdown time can be set, and suitable for on-site use. DC 24V loop power for on -site use.		

ET2110 High-Precision temperature process caliobrator

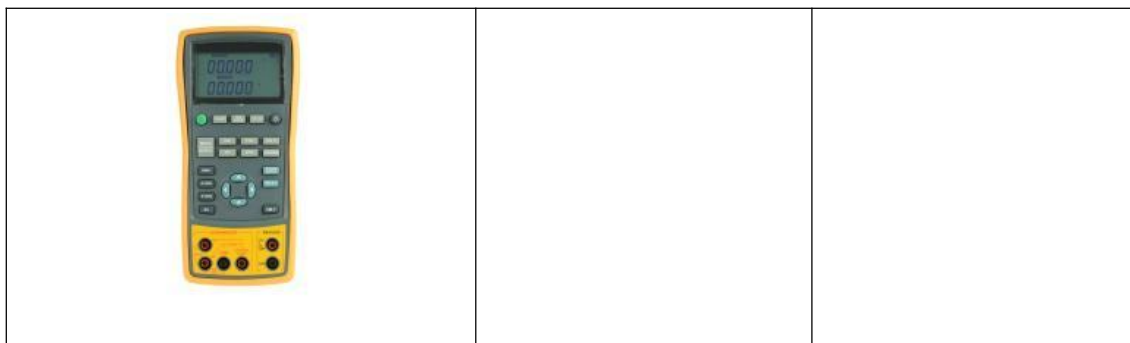
ET2110 High-Precision temperature process calibrator	ET2110B 0.01Precision	ET2110C 0.02Precision
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Measurement/output: voltage, millivolt, resistance, resistance, thermocouple, rtd, current, etc.
 Measurement and output data can be displayed simultaneously or separately.
 220V measurement function.
 Simulating 2-wire transmitter.
 Resistance measurement options: 2 wires, 3 wires, 4 wires.
 Accuracy: 0.01%, 0.02%.
 Two isolated channels support measure and output simultaneously.
 Providing manual step, automatic step, automatic step and manual step functions.
 3.5 TFT LCD screen,resolution rate 480*320.
 5000mAh Lithium battery.
 Automatic power shutdown function, shutdown time can be set, and suitable for on-site use.
 Providing DC 24V loop power for on -site use.
 Thermocouple measurement and output provide three kinds of cold junction temperature compensation methods: built-in, external and manual, among them, external reference junction adopts A class Pt100 Platinum resistance, which can correct temperature through inputting certificate value.
 Thermocouple types: R,S,K,E,J,T,N,B,L,U,XK,WRE325,WRE526.
 RTDtypes:PT100-385,PT100-392,PT100-JIS,PT200-385,PT500-385,PT1000-385,Cu10,Cu50, Cu100,Nil20, BA1,BA2,PT10.

ET2725A/2725B MultifunctionProcess Calibrator

ET2725 Calibrator	MultifunctionProcess	ET2725A 0.02Precision	ET2725B 0.05Precision
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Super-strong protection:The waterproof grade is IP67. Automatic protection against the signal terminals connect to the 220V

A split-screen display. The upper display allows you to measure volts, current (with loop power), resistance and continuity test. The lower display allows you to measure and source volts, current, resistance temperature detectors (RTD), thermocouples (TC), frequency, and ohms.

The accuracy 0.02% or 0.05%.

Calibrates a transmitter using the split-screen.

The measure of thermocouple provides automatic reference junction.

Automatic and manual cold end temperature compensation for TC.


Manual stepping and automatic stepping and ramping.

APSL intelligent pressure module with high precision can be selected according to customer needs to realize pressure measurement function.

Function	MeasureZ	Source
DC V	0~60V (the upper display ± 30V)	0~10V
DC mA	0~24mA (the upper display ± 24mA)	0~24mA
Frequency	1.000Hz ~ 100.00kHz	0.00Hz~20.000kHz
Resistance	0~3200Ω	0~3200Ω
DC mV	0~100mV (the upper display ± 200mV)	0~100mV
RTD	Pt100, Pt1000, Cu50, Cu100	Pt100, Pt1000, Cu50, Cu100
TC	E, J, K, T, B, R, S, N	E, J, K, T, B, R, S, N
Others	Loop supply, Step, Ramp, Dual display	

ET2715A/2715B Current and voltage calibrator

ET2715A/2715B Current and voltage calibrator	ET2715A 0.02Precision	ET2715B
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		0.05Precision																		
<p>Accuracy:0.02% or 0.05%</p> <p>Perfect performance on waterproof protection: IP67 grade</p> <p>In case of connecting 220V with automatic over voltage protection function.</p> <p>With manual stepping, automatic stepping and 0 ~ 100% output of phase step and ramp function</p> <p>LED with white backlight</p> <p>Source of voltage, current and frequency.</p> <p>Measure of voltage, current, loop current and frequency.</p> <p>Manual stepping and automatic stepping and ramping.</p>																				
<table border="1"> <thead> <tr> <th>Function</th> <th>Measure</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>DC V</td> <td>0~30 V</td> <td>0~10 V</td> </tr> <tr> <td>DC mV</td> <td>0~100 mV</td> <td>0~100 mV</td> </tr> <tr> <td>DC mA</td> <td>0~24 mA</td> <td>0~24 mA</td> </tr> <tr> <td>Frequency</td> <td>1.000Hz~99.999kHz</td> <td>0.00Hz~20.000kHz</td> </tr> <tr> <td>Others</td> <td colspan="2">24V power supply, Step, Ramp.</td> </tr> </tbody> </table>			Function	Measure	Source	DC V	0~30 V	0~10 V	DC mV	0~100 mV	0~100 mV	DC mA	0~24 mA	0~24 mA	Frequency	1.000Hz~99.999kHz	0.00Hz~20.000kHz	Others	24V power supply, Step, Ramp.	
Function	Measure	Source																		
DC V	0~30 V	0~10 V																		
DC mV	0~100 mV	0~100 mV																		
DC mA	0~24 mA	0~24 mA																		
Frequency	1.000Hz~99.999kHz	0.00Hz~20.000kHz																		
Others	24V power supply, Step, Ramp.																			

ET2712A/2712B Thermoresistance calibrator will off product

ET2714A/ET2714B Thermocouple calibrator will off product

ET2710A/2710B Temperature Calibratorr

ET2710 Temperature Calibratorr	ET2710A 0.02Precision	ET2710B 0.05Precision
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It allows you to measure DC V, DC mV, resistance ,TC and RTD.
 Outputs resistance, simulation of TC and RTD.
 Automatic and manual cold end temperature compensation for TC.
 Manual stepping, automatic stepping, 0~100% phase step and ramp output.
 Super-strong protection:The waterproof grade is IP67. Automatic protection against the signal terminals connect to the 220V.

Function	Measure	Source
DC V	0~30V	Not available
DC mV	0~120mV	0mV~100mV
Resistance	0~3200Ω	0~3200Ω
RTD	Pt100, Pt1000, Cu50, Cu100	Pt100, Pt1000, Cu50, Cu100
TC	E,J,K,T,B,R,S,N	E,J,K,T,B,R,S,N
Others	Stepping output, ramp, phase step output, user-defined range	

Desktop process calibrator Series

ET276XSeries Benchtop thermotechnical Calibrator Desktop process calibrator

ET276XSeries Benchtop thermotechnical Calibrator Desktop process calibrator	ET2761 	ET2762 	ET2763 
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All traffic signals are completely isolated.
 output way: support to type at the same time, the cursor shift and knob to adjust three forms;
 measurement and output dc voltage, current, resistance and frequency signal;

support thermocouple, heat resistance signal measurement, also can simulate the thermal resistance, thermocouple signal;
 using Pt100 external sensors provide a reliable, fast and precise cold junction compensation, support manual and automatic compensation, compensation accuracy of 0.5, range - 40 °C ~ 60 °C;
 MFG signal transmission and output time
 resistance, thermocouple measurement function, support two, three, four wire system model;
 between any two ports are able to withstand 220 vac into a 36 VDC go (except the power output port);
 all under the output function can short-circuit the recovery;
 It is necessary to select and select the intelligent pressure measuring function.
 communication mode: standard RS232, LAN, USB, the Host, the communication protocol provided free of charge, and agreements in SCPI specification;
 data memory function: as many as 5000 points/signal data storage memory function;
 mode of power supply: 220 v AC + / - 10%, 50 hz;
 product size: 310 mm * 140 mm * 140 mm (width * * deep)

Model	ET2761	ET2762	ET2763
Measure/output channel number.	1	2	3


ET2780 Combined multichannel Calibrator Multichannel DC Signal Generation Calibrator

ET030-E Multimeter Calibrator

ET-30E Multimeter Calibrator	ET-30E
<p>1.1. The whole machine adopts "closed loop" control with high output accuracy and stability.</p> <p>1.2. Digitally synthesized sine wave signal generator with low distortion and high reliability.</p> <p>1.3, LCD screen display.</p> <p>1.4. The output adjustment can be adjusted "by bit" or "percent".</p>	

<p>1.5. AC and DC voltage output range 0 ~ 1000V. 1.6 The output range of AC and DC current is 0 ~ 10A. 1.7. There are four AC frequency options: 50Hz, 60Hz and 400Hz. 1.8. Automatic protection of voltage short circuit and current open circuit.</p> <p>Technical indicators:</p> <p>1.1 Stability: AC <0.02% / 5min of full scale DC <0.005% / 5min of full scale 8-hour stability: 30% accuracy</p> <p>1.2. Resolution: 20ppm (0.002%)</p> <p>1.3, AC distortion: <0.5%, 20A <2%</p> <p>1.4, DC ripple coefficient: <0.1%; 20A <1%</p> <p>1.5, output frequency accuracy <0.1%</p> <p>1.6. Dimensions: 460 × 460 × 130 (mm) Weight: about 18Kg</p> <p>1.7. Range and accuracy of output voltage, current and median resistance:</p>

ET-30B Multimeter Calibrator


<p>ET-30B Multimeter Calibrator</p> 	<p>ET-30B</p>
<p>1.1. The whole machine adopts "closed loop" control with high output accuracy and stability.</p> <p>1.2. Digitally synthesized sine wave signal generator with low distortion and high reliability.</p> <p>1.3, LCD screen display.</p> <p>1.4. The output adjustment can be adjusted "by bit" or "percent".</p> <p>1.5. AC and DC voltage output range 0 ~ 1000V. 1.6 The output range of AC and DC current is 0 ~ 20A. 1.7. There are four AC frequency options: 50Hz, 60Hz and 400Hz. 1.8. Automatic protection of voltage short circuit and current open circuit.</p> <p>Technical indicators:</p> <p>1.1 Stability: AC <0.02% / 5min of full scale DC <0.005% / 5min of full scale 8-hour stability: 30% accuracy</p> <p>1.2. Resolution: 20ppm (0.002%)</p> <p>1.3, AC distortion: <0.5%, 20A <2%</p>	

<p>1.4, DC ripple coefficient: <0.1%; 20A <1%</p> <p>1.5, output frequency accuracy <0.1%</p> <p>1.6. Dimensions: 460 × 460 × 130 (mm) Weight: about 18Kg</p> <p>1.7. Range and accuracy of output voltage, current and median resistance:</p>


ET-30D Multimeter Calibrator

ET-30D Multimeter Calibrator		ET-30D		
Output item	Output range	Rated output	Maximum output	Accuracy
AC and DC voltage	0~200 mV	20mA	100mA	Basic error: DCV:±(0.03% reading + 0.02% Range) DCI、ACV:±(0.05% reading + 0.02% Range) ACI:±(0.1%reading+ 0.02% Range) 400Hz Additional error above: ±0.08% ACI<1mA No assessment
	0~1V~2V	50mA	100 mA	
	0~5V~10V~20V	100mA	200mA	
	0~50V~100V~200V	50mA	100mA	
AC and DC current	0~500V~1000V	20mA	40mA	
	0~100uA~500uA~2mA ~5mA~20 mA~50 mA ~200 mA~500 mA		DC:3V AC: 12V	
	0~1A		DC:3V AC: 12V	
Median resistance	0~20A		1.5V	
	100Ω~20MΩ	0.25W		±(0.1%+20mΩ)
	10Ω~50Ω	0.25W		±(0.2%+20mΩ)
(1) Working environment temperature exceeds 20 °C ± 2 °C, every time temperature changes by 10 °C, the additional error is less than the basic error of range				

ET-AY30 Precision pressure calibrator

<p>ET-AY Precision pressure calibrator</p> 	<p>ET-AY 0.02</p> <p>ET-AY 0.05</p>
<p>Performance Index</p> <p>Pressure measuring range: -100kpa ~ 60MPa; accuracy: level 0.02, level 0.05, level 0.1, level 0.2. Pressure unit: there are 12 kinds of pressure units including kPa, psi, inHg, inH₂O, mmHg, mmH₂O,MPa, bar, mbar, atm, kg/cm² and Pa. Too small or too large a pressure unit may result in abnormal data display. Pressure overload: When the pressure measurement value exceeds 110%FS, overpressure is displayed and an alarm is given. Temperature measurement: (0~50) °C; resolution 0.1°C; accuracy: ±0.5°C. Operating environment: a. Ambient temperature :(-5~50)°C; b. Relative humidity: <95% (no condensation); c. Atmospheric pressure :(86 ~ 106) kPa. Storage temperature :(-30 ~ 80) °C. Display: 2.8-inch color screen, 5-digit display, Chinese and English can be switched. Power supply: built-in 3.7v lithium battery power supply, with 5V power adapter. Auto power-off function: turn off the auto power-off function and set the auto power-off time in the system information. Communication serial port configuration: baud rate: 9600; check bit: none; data bit: 8; stop bit: 1; Dimension: header Φ 115 mm x 45 mm; total length: 185 mm. Weight: about 0.5kg. Pressure connection: M20×1.5 (can be customized according to user needs).</p>	

ET-BY digital pressure guage

<p>ET-BY Precision pressure GAUGE</p> 	<p>ET-BY 0.02 ET-BY 0.05</p>
<p>Performance Index</p> <ul style="list-style-type: none"> ◆ Pressure measuring range: -100kpa ~ 60MPa; accuracy: level 0.02, level 0.05, level 0.1, level 0.2. ◆ Pressure unit: there are 12 kinds of pressure units including kPa, psi, inHg, inH₂O, mmHg, mmH₂O, MPa, bar, mbar, atm, kg/cm² and Pa. ◆ Too small or too large a pressure unit may result in abnormal data display. ◆ Pressure overload: When the pressure measurement value exceeds 110%FS, overpressure is displayed and an alarm is given. ◆ Temperature measurement: (0~50) °C; resolution 0.1°C; accuracy: ±0.5°C. ◆ Operating environment: <ul style="list-style-type: none"> ◆ a. Ambient temperature :(-5~50)°C; ◆ b. Relative humidity: <95% (no condensation); ◆ c. Atmospheric pressure :(86 ~ 106) kPa. ◆ Storage temperature :(-30 ~ 80) °C. ◆ Display: 2.8-inch color screen, 5-digit display, Chinese and English can be switched. ◆ Power supply: built-in 3.7v lithium battery power supply, with 5V power adapter. ◆ Auto power-off function: turn off the auto power-off function and set the auto power-off time in the system information. ◆ Communication serial port configuration: baud rate: 9600; check bit: none; data bit: 8; stop bit: 1; ◆ Dimension: header Φ 115 mm x 45 mm; total length: 185 mm. ◆ Weight: about 0.5kg. ◆ Pressure connection: M20×1.5 (can be customized according to user needs). 	

ETYL140 /ETYL141/ETYL142 pressure pump

<p>ETYL140 pressure pump</p>	
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The ETYL140 micro-pressure gas pressure source is used to provide a stable and sufficiently small micro-pressure source when it is used as a calibration micro-pressure transmitter, micro-pressure sensor, and micro-pressure diaphragm pressure gauge. The pressure source adopts an open and transparent design, and has the characteristics of simple operation, stable lifting and pressure opening, small adjustment fineness (up to 0.01Pa), convenient maintenance, and not easy to leak.

Pressure range: (-95~800)kPa

Adjust fineness: 0.01Pa

Pressure transmission medium: no pollution, no corrosive gas

Pressure connection: M20×1.5 (2 pieces)

Volume: 270mm×210mm×100mm

Weight: 2.0kg

ETYL141 pressure pump



The pressure transmission medium is air, which is clean and sanitary, does not pollute the environment, and improves the accuracy of the calibration instrument

Integrating positive and negative pressure in one, easy to switch between positive and negative pressure

Open structure, simple operation and easy maintenance

Lever-type pressurization, super large range of pressurization and decompression, making the lifting and pressurizing process more stable

It can be connected to an external air source, saving time and effort

The material is made of aluminum alloy, which is beautiful in appearance and easy to carry

Fine fine-tuning to provide higher display resolution

Technical index

Pressure range: (-0.095 ~ 6) MPa

Pressure stability: 0.02%F.S

Adjustment accuracy: 10Pa

Pressure port: 2*M20x1.5

Working medium: air

Dimensions: (280×215×170) mm

Equipment weight: 2kg

ETYL142 pressure pump



The pressure measurement or calibration process often needs to be carried out on site. Most of the mainstream devices currently popular in the market are bulky and inconvenient for travel calibration. Foreign products are mainly hand-clamp type, which is labor-intensive and inconvenient to operate.

The hand-held hydraulic power source is made of special hard aluminum alloy material, which is light in weight and easy to carry. It is an ideal solution for on-site pressure verification when used in conjunction with the company's APSL intelligent digital pressure calibrator, high-pressure liquid connecting pipe, pressure conversion joint, and special tools for instrument verification.


It is an ideal pressure source for various pressure transmitters, pressure switches, pressure gauges and other pressure instruments and meters within the range of (0-60) MPa for industrial field calibration. Mainly used in electric power, food hygiene, aerospace, military, metallurgy, metering and other industries.

technical parameter


◆ Pressure range: (0~60)MPa

- ◆Dimensions: 200mm×130mm×90mm
- ◆Adjust fineness: 0.1kPa
- ◆Weight: 3.5kg

HART475 COMMUNICATE METER

<p>HART475 COMMUNICATE METER</p>	
<p>Technical index</p> <ul style="list-style-type: none"> ● HART @ interface conforms to the agreement of HCF (HART®communication foundation), and works in 1200bit/s two-way semi-duplex mode. ● The common mode voltage that the HART @ interface can receive is ±40V; ● The typical value of leakage current is less than 1uA@20 °C. ● Communication distance of HART interface < 1500m; ● HART @ communication interface has anti-EMC measures; ● HART @ communication interface has automatic amplitude multiplication function. <p>General technical specifications</p> <ul style="list-style-type: none"> ● Size: 165×80×32mm (excluding the leather case). ● Operating environment: temperature 0°C ~ 50°C <p>Types of transmitters supported</p> <p>HK-H3151、HK-H1151、HK-H990-CT1、HK-H610、YOKOKAWA、EJA、Rosemount 1151、Rosemount 3051、HK-H990M (HART general pressure transmitter round card)、HK-H991M (general pressure transmitter board card)、HK-H3351M (Huakong 3351 pressure transmitter round card)、SIPART_PS2 (SIMENS valve positioner)、SITRANS_FM_MAG (SIMENS mass flowmeter)、SITRANS_TH300 (SIMENS thermometer) .</p>	

Temperature Calibrator Series

	ET2520N-100 (-100~50)°C
	ET2520N-80 (-80~50)°C
	ET2520N-60 (-60~50)°C

Series	Cryogenic Temperature Series		
Model	ET2520-N100	ET2520-N80	ET2520-N60
Temperature range	-100~50°C	-80~50°C	-60~50°C
Resolution rate	0.001°C		
Accuracy	±0.05°C		
Fluctuation	±0.01°C/10min(Typital) ±0.02°C/10min(Max)		
Axial uniformity(30mm)	±0.8°C(@-100°C) ±0.4°C(@0°C)		
Heating time	9min(-100°C~ 25°C)	8min(-80°C~25°C)	

Cooling time	36min(25°C ~ -100°C)	25min(25°C~-80°C)
Stability time	Around 10 min	
Size of Heating insert	φ30mm/160mm	
Power Supply	110 or 220 VAC, (45-65)Hz	
Rated Power	350W	
Net Weight	17kg	
Dimension	L 330mm×W 200mm×H 470mm	
Screen	6.2”TFT touch screen, resolution rate800×480	
Communication	USB Device	
Language	English/ Chinese	
Unit	°C、°F	
Working Environment	<ul style="list-style-type: none"> ◆Operating temperature range: (0~50) °C; ◆storage temperature: (-20~60) °C; ◆Temperature range that ensuing working parameters : (18~28) °C; ◆Environment humidity: (0%~90%) RH, non-condensing; ◆Attitude: lower than 3000m. 	


ET25series Touch-screen Dry Block temperature Calibrator	ET2520-160A (-20~160)°C
	ET2520-160B (-30~160)°C
	ET2520-180A(-20~180)°C
	ET2520-180B (-30~180)°C



Series	Low temperature series				
Model	ET2520-160A	ET2520-160B	ET2520-160C	ET2520-180A	ET2520-180B
Temp range	-25°C~ 160°C	-35°C~160°C	-45°C~160°C	-20°C~ 180°C	-30°C~ 180°C
Resolution rate	0.01°C、0.001°C				
Temp accuracy	±0.1°C				
Temp fluctuation	±0.005°C/10min				
Axial uniformity(30mm)	±0.10°C (-25°C) ±0.10°C (160°C)	±0.15°C (-35°C) ±0.10°C (160°C)	±0.25°C (-45°C) ±0.1°C (160°C)	±0.25°C (-30°C) ±0.60°C (150°C)	
Heating time	9min (20°C~160°C) 2min (-25°C~20°C)	9min (20°C~160°C) 3min (-35°C~20°C)	8min (20°C~160°C) 2min (-45°C~20°C)	28min (20°C~150°C) 3min (-30°C~20°C)	
Cooling time	14min (160°C~20°C) 12min (20°C~-25°C)	14min (160°C~20°C) 18min (20°C~-35°C)	10min (160°C~20°C) 23min (20°C~-45°C)	12min (150°C~20°C) 14min (20°C~-20°C)	


Temp stability time	Around 10 mins			
Diameter of heating block	Φ36mm/160mm	Φ30mm/160mm	Φ36mm/155m m	Φ32mm/155 mm

ET25series Touch-screen Dry Block temperature Calibrator

ET25series Touch-screen Dry Block temperature Calibrator		ET2520-660	
			
	Series	Medium Type	
	Model	ET2520-660	
	Temperature range	50~660°C	
	Resolution rate	0.001°C	
	Temp accuracy	±0.35°C(50°C~400°C) ±0.5°C(400°C~660°C)	
	Temp fluctuation	±0.05°C/10min	

Axial uniformity(30mm)	±0.3°C (50°C~300°C) ±0.5°C (300°C~660°C)
Heating time	18min (30°C~660°C)
Cooling time	32min (660°C~100°C) 18min (100°C~50°C)
Temp stability time	Around 10 mins
Diameter of heating block	φ25mm/155mm




2501 Touch-screen Dry Block temperature Calibrator

<p>2501-150A Touch-screen Dry Block temperature Calibrator</p> 	<p>2501-150B Touch-screen Dry Block temperature Calibrator</p>	<p>2501-650 Touch-screen Dry Block temperature Calibrator</p>	<p>2501-1200, Touch-screen Dry Block temperature Calibrator</p>
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model	ET2501-150A	ET2501-150B	ET2501-650	ET2501-1200
temperature range	-20°C~150°C	-30°C~150°C	50°C~650°C	300°C~1200°C
heating rate	30~100:20min 30~150:40min	30~100:20min 30~150:40min	30~300:7min 30~400:12min 30~650:25min	30~1200:75min

Display accuracy	$\leq\pm 0.1^{\circ}\text{C}$	$\leq\pm 0.1^{\circ}\text{C}$	Below 400°C : $\leq\pm 0.35^{\circ}\text{C}$ $400-650^{\circ}\text{C}$: $\leq\pm 0.5^{\circ}\text{C}$	$\leq\pm 1.2^{\circ}\text{C}$
Insertion depth	160mm		150mm	135mm
Average heat block diameter	36mm	32mm	32mm	39mm
Temperature field stability	$\leq\pm 0.02^{\circ}\text{C}$	$\leq\pm 0.02^{\circ}\text{C}$	$\leq\pm 0.05^{\circ}\text{C}$	$\leq\pm 0.2^{\circ}\text{C}$
Horizontal temperature field	$\leq\pm 0.05^{\circ}\text{C}$	$\leq\pm 0.05^{\circ}\text{C}$	$\leq\pm 0.05^{\circ}\text{C}$	$\leq\pm 0.25^{\circ}\text{C}$
Vertical temperature field	The deviation in the range of 50mm calculated from the bottom of the hole of the soaking block is 1 degree			
Temperature unit	$^{\circ}\text{C}$ or $^{\circ}\text{F}$			
Display resolution	0.01°C	0.01°C	0.01°C	0.01°C
maximum power	Negative temperature type: 500W, medium temperature type: 800W, high temperature type: 3000W			
weight(Net weight)	Negative temperature type: 13kg, medium temperature type: 11kg, high temperature type: 11kg			
weight (Containing packaging)	Negative temperature type: 23kg, medium temperature type: 18kg, high temperature type: 20kg Packaging includes aluminium box and transport wooden box			
Outline size	Negative temperature type and high temperature type: 310*190*340mm, medium temperature type: 250*150*310mm			
Use environment	Ambient temperature $0-50^{\circ}\text{C}$, relative humidity less than 95% (no condensation)			
Power supply	220VAC $\pm 10\%$, 45 ~ 60Hz, optional 110VAC $\pm 10\%$.			
Selection function	Verification Data Recording and Exporting (ET2501 only optional), up to 60 sensors, 600 records,USB Device Communication Interface			

<p>ET3804 Intelligent dry block temperature calibrator</p> 	<p>ET3804-150B(-30-150degree)</p> <p>ET3804-150A(-20-150degree)</p> <p>ET3804-650(50-650degree)</p> <p>ET3804-1200(300-1200degree)</p>
<p>ET3805Intelligent dry block temperature calibrator</p> 	<p>ET3805-150B (-30-150degree)</p> <p>ET3805-150A(-20-150degree)</p> <p>ET3805-650(50-650degree)</p> <p>ET3805-1200A(300-1200degree)</p> <p>ET3805-1200B(100-1200degree)</p>
<p>ET3131</p> 	<p>Signal channel</p>

<p>ET3131B High-precision Therometer</p> 	<p>Signal channel</p>
<p>ET3132 High-precision Therometer</p> 	<p>Double channel</p>
<p>ET3132B High-precision Therometer</p> 	<p>Double channel</p>

Model		ET3131	ET3132	ET3131B	ET3132B
number of channels		Signal channel	Double channel	Signal channel	Double channel
Resistance measurement	highest resolution	10μΩ		10μΩ	
	Measuring range	0~1600Ω		0~1600Ω	
	Accuracy (meter only)	±(0.003%+50)		±(0.003%+50)	
Thermal resistance measurement	highest resolution	0.0001℃		0.0001℃	
	Measuring range	-200~850℃		-200~850℃	
	Accuracy (meter only)	±0.004℃ @-100℃ ±0.006℃ @0℃ ±0.009℃ @100℃ ±0.012℃ @200℃ ±0.018℃ @400℃ ±0.024℃ @600℃		±0.004℃ @-100℃ ±0.006℃ @0℃ ±0.009℃ @100℃ ±0.012℃ @200℃ ±0.018℃ @400℃ ±0.024℃ @600℃	
millivolt	highest	--		10nV	

measurement	resolution		
	Measuring range		-78mV~+78mV
	Accuracy (meter only)		±(0.0018%+30)
thermocouple measurement	highest resolution	--	0.001℃
	Measuring range	--	-250~2500℃
	Accuracy (meter only)	--	S: ±0.5℃ R : ±0.4℃ K: ±0.15℃ J: ±0.1℃ B: ±0.6℃ T: ±0.1℃ E: ±0.1℃ N: ±0.15℃ L: ±0.15℃ U: ±0.15℃ XK: ±0.1℃ BP: ±0.5℃
current measurement	highest resolution	--	1nA
	Measuring range	--	-24mA~24mA
	Accuracy (meter only)	--	±(0.04%+20)
Other functions			
Resistance measurement		Support 2-wire and 4-wire wiring	
Thermal resistance measurement		Support 3-wire, 4-wire two wiring methods	
Thermal resistance graduation number		Support thirteen conventional graduations such as Pt10, Pt25, Pt50, Pt100, Pt200, Pt500, Pt1000, Pt100-392, Pt100-JIS, Cu10, Cu50, Cu100, Ni120 and two standard graduations, Pt25 and Pt100, Support user-defined graduation number	
Thermocouple cold junction (only ET3131B and 3132B) Automatic cold junction, support manual setting of cold junction temperature		Thermocouple cold junction (only ET3131B and 3132B) Automatic cold junction, support manual setting of cold junction temperature	
Thermocouple graduation number (ET3131B and 3132B)		Support S, R, K, J, B, T, E, N, L, U, XK, BP and other twelve conventional thermocouple graduation numbers and standard S type, support user-defined graduation numbers	

only)	
temperature curve display	Support temperature curve display; save 10 sets of historical data and curves; read historical data and curves
temperature unit	°C、°F、K
display screen	5-inch TFT LCD touch screen, resolution 800*480, 16M colors
Communication Interface	Support RS485 and USB virtual serial port

ET314A high precision thermometer

ET314A high precision thermometer provides a full range of measurement functions and diversified price points, with better measurement accuracy and resolution, good user experience; 3.5-inch TFT LCD display, clear reading, simple and generous display, convenient for users to buy according to their own needs.

1. Basic features

- 3.5-inch 320x240TFT LCD screen with adjustable brightness and clear graphical interface.
- Support English and Chinese switching interface, real-time clock display.
- Support millivolt measurement, measuring range -78mV~78mV.
- Support 2-wire / 4-wire resistance measurement, measuring range 0~1600Ω.
- Support RTD thermal resistance measurement, including standard Pt100, standard Pt25, conventional Pt10, Pt25, Pt50, Pt200, Pt500, Pt1000, PT100-392, PT100-JIS, Cu10, Cu50, Cu100, Ni120, support user custom indexing number.



- Support TC thermocouple measurement, including standard S-type thermocouple, conventional S, R, K, J, B, T, E, N type thermocouple, as well as L, U, XK, BP type thermocouple and user defined indexing number.
- Standard Pt100, standard Pt25, standard type S thermocouple, each can store 4 groups of probe parameters.
- Serial communication interface is provided.

2. General Technical specifications


- 3.7V lithium battery powered.
- Power consumption: <3W.
- Display: 3.5-inch TFT LCD screen, resolution 320×240, color 16M.
- Size: 210mm×110mm×35mm (length × width × height).
- Communication interface: TYPE C.

Technical specifications

model		ET3141A	ET3142A
Number of channels		Single Channel	Double Channel
Resistance measurement	Maximum resolution	100uΩ	
	Measurement range	0~1600Ω	
	accuracy	0.004%RD+7mΩ	
Thermal resistance measurement	Maximum resolution	0.001°C	
	Measuring range	-200~850°C	
	Accuracy (Instrument only)	0.05°C	
Millivolt measurement	Maximum resolution	--	100nV
	Measuring range		-78mV~+78mV
	Accuracy		mV voltage (Electrical test part only) 0.003%RD+6uV
	Maximum resolution	--	0.001°C
	Measuring	--	-250~2500°C

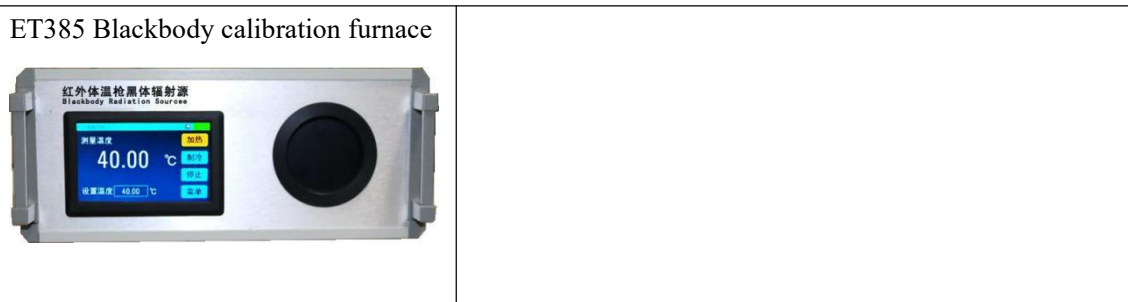
热电偶测量	range		
	Accuracy (Instrument only)		K 0.005%RD+0.3°C T 0.005%RD+0.2°C B 0.005%RD+0.6°C E 0.005%RD+0.2°C J 0.005%RD+0.2°C T 0.005%RD+0.2°C S 0.005%RD+0.4°C L 0.005%RD+0.3°C U 0.005%RD+0.3°C XK 0.005%RD+0.2°C BP 0.005%RD+0.6°C
Humidity sensor function (optional)		Supports Rotronic humidity sensors, corresponding models are ET3141 +、ET3142+、ET3141 B+、ET314 2B+	

ET251 zero Thermostat(Cold Junction Compensation)

ET251 zero Thermostat(Cold Junction Compensation) 	
Accuracy: 0°C±0.1°C Stability: ±0.02°C Temperature controller resolution: 0.01°C, the maximum display digits are 5 digits Cooling speed: 25°C to 0°C for 15 minutes; Number of insertable sensors and aperture: standard configuration is 8 holes, all of which are φ 9mm	

Insertion depth: 200mm
 Temperature stability: $\leq \pm 0.02^{\circ}\text{C}/15\text{min}$
 5.0-inch TFTLCD touch screen, 16-bit true color RGB display, full touch operation
 Size: 290mm×163mm×315mm (length×width×height)
 Weight: 9kg;
 Working voltage: 220V.AC±10%, optional 110V.AC±10%, 45-65Hz;
 Power supply: one-way AC 220v, maximum power 300W
 Working environment conditions: ambient temperature 5°C-30°C
 Relative humidity 10%-80%

ET385-050 Blackbody calibration furnace



E385-050 infrared thermometer black body determination furnace is mainly used for real-time calibration of infrared ear thermometer, infrared forehead thermometer, infrared body surface screener, infrared imaging thermometer, etc., to eliminate the complexity of the infrared temperature measurement system on site. The error caused by the environment can effectively improve the measurement accuracy, improve the reliability of the infrared temperature measurement system, and reduce the error detection rate.

Product model ET385-050

Effective emissivity ≥ 0.99

Temperature range 30°C~50°C

Display resolution 0.01°C

Temperature stability $\pm 0.1^{\circ}\text{C}/10\text{min}$

Temperature uniformity $\leq 0.15^{\circ}\text{C}$



Control method PID

Surface source size $\Phi 60\text{mm}$

Dimensions 300mm*350mm*145mm (length*width*height)


Weight 5kg

The above indicators are valid when the measured temperature is stable for 15 minutes after starting to work.

	ET3860B-180	(-60-180 best 0.05)
	ET3860B-300	(-80-300 best 0.05)
	ET3860C-180	(-60-180 best 0.1)
	ET3860C-300	(-80-300 best 0.1)
	ET3860B-200(-40-200C, best 0.05)	
	ET3860C-200(-40-200C, best 0.1)	
Model	ET3860B-180 ET3860C-180	ET3860B-300 ET3860C-300
temperature range	-60-180°C	-80-300°C
Sensor specification	Thin film platinum resistance(RTD)	Wire wound platinum
Accuracy	Bmodel :best 0.05°C;C model best 0.1°C	
Calibration cycle	One year	
Host temperature coefficient	<1ppm/°C	
Sensor length	500mm(19.68 inch)	
Sensor diameter	6mm	
Sensor material	316 stainless steel (medical, food grade)	
Sensor temperature coefficient	Rating 0.00385 Ω/Ω/°C	
display resolution	0.001°C(User configurable to 0.1°C,0.01°C)	
Sampling frequency	0.5S,1S,2SConfigurable	
Thermal response time constant	30S	
Data storage	16,000 sets of data (with time stamp)	
way of communication	USB and wireless communication	
Wireless communication distance	Unobstructed farthest 160m	
type of battery	High temperature lithium battery	

Charging voltage	DC5V
Host working environment	10°C to 50°C(14°Fto 122°F)
Protection level	Host IP50, sensor IP68
Host size	Main unit size 106mm (length) X48mm (width) X37mm (height)
Total Weight	210g
Optional accessories	1, USB wireless communication module; 2, digital thermometer

ET3871 standard thermostatic bath

ET3871 standard thermostatic bath 	ET3871-80	-80°C~95°C
	ET3871-60	-60°C~95°C
	ET3871-40	-40°C~95°C
	ET3871-30	-30°C~95°C
	ET3871-20	-20°C~95°C
	ET3871-10	-10°C~95°C
	ET3871-0A	0°C~95°C

product	ET3871 series refrigeration constant temperature bath						
model	ET3871-80	ET3871-60	ET3871-40	ET3871-30	ET3871-20	ET3871-10	ET3871-0A
range of working temperature	-80°C~95°C	-60°C~95°C	-40°C~95°C	-30°C~95°C	-20°C~95°C	-10°C~95°C	0°C~95°C
temperature fluctuation	better than 0.01°C	better than 0.01°C	better than 0.01°C	better than 0.01°C	better than 0.01°C	better than 0.01°C	better than 0.01°C

temperature uniformity	better than0.01 °C	better than0.01 °C	better than0.01 °C	better than0.01°C	better than0.01°C	better than0.01°C	better than0.01°C
Workspace size	φ150*480	φ150*480	φ150*480	φ150*480	φ150*480	φ150*480	φ150*480
Cooling method	Double machine cascade	Double machine cascade	single stage cooling	single stage cooling	single stage cooling	single stage cooling	single stage cooling
working medium	Soft water/anh ydrous ethanol	Soft water/anh ydrous ethanol	Soft water/anh ydrous ethanol	Soft water/anh ydrous ethanol	Soft water/anh ydrous ethanol	Soft water/anh ydrous ethanol	Soft water
Use ambient temperature	lower than30°C	lower than30°C	lower than30°C	lower than35°C	lower than35°C	lower than35°C	lower than35°C
power supply	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
total power	4KW	3KW	2KW	2KW	2KW	2KW	2KW
Dimensions	640*600*1250	640*600*1250	640*600*1250	640*600*1250	640*600*1250	640*600*1250	640*600*1250

Portable cooling thermostic liquid bath ET3876-40 (-40-95degree)

Working temperature range: -40°C~95°C

Temperature fluctuation: ±0.01°C

Temperature uniformity: ≤0.01°C

Display resolution: 0.001°C

Working area size: φ 50×200 (mm)

Working medium: alcohol or soft water or special liquid

Ambient temperature: 15°C-28°C

Refrigerant: 404a

Power supply: 220V/50Hz ±10%




Volume of tank: 1.8L

Dimensions: 280×300×350 (mm)

Total power: 1KW


ET3875 Portable Refrigeration Thermostat Indicator

	ET3875-40		-40°C~95°C
	ET3875-30		-30°C~95°C
	ET3875-20		-20°C~95°C
	ET3875-10		-10°C~95°C
	ET3875-0A		-0°C~95°C

Portable thermostatic baths usually use liquid as the working medium, heat the medium through a precise temperature control module, and use mechanical auxiliary stirring at the same time to quickly form a uniform and stable temperature environment in the working area. In this environment, it can be used for the verification/calibration of various temperature instruments (such as: thermal resistance, liquid-in-glass thermometer, pressure thermometer, bimetal thermometer, thermocouple, etc.).

MODEL	ET3875-40	ET3875-30	ET3875-20	ET3875-10	ET3875-0A
range of working temperature	-40°C~95°C	-30°C~95°C	-20°C~95°C	-10°C~95°C	-0°C~95°C
temperature fluctuation	better than 0.01°C/15min				
temperature uniformity	better than 0.01°C				

Workspace size	φ80*250mm
Cooling method	single stage cooling
working medium	Soft water/anhydrous ethanol
Use ambient temperature	20~30°C
power supply	220V/50Hz
power	2.2kW
Dimensions (mm)	510*250*550
quality	25kg

<p>ET3875 Seris Portable Thermostatic Oil bath</p> 	ET3875-300 +70°C~300°C
	ET3875-92 +50°C~95°C

MODEL	Portable Thermostatic Oil bath ET3875-300	Portable Thermostatic water bath ET3875-95
medium	Methyl silicone oil	soft water
temperature range	room temperature	room temperature

		+30°C~300°C	+15°C~95°C
temperature field uniformity	better than 0.01°C		
temperature fluctuation	better than 0.01°C		
Workspace size	φ80*250mm		
Use ambient temperature	20~30°C		
power supply	220V/50Hz		
power	1.2kW		
volume	5L		
Dimensions (mm)	420*210*460		
quality	15kg		

It is widely used in research departments, colleges and universities, enterprise quality inspection and production departments such as petroleum, chemical industry, electronic instrumentation, physical chemistry, bioengineering, medicine and health, life science, light industry and food, physical property testing and chemical analysis. It provides users with a field source with controlled heat and temperature uniformity and constant when working, and can perform constant temperature experiments or tests on experimental samples or production samples. It can also be used as a heat source or cold source for direct heating or cooling.




型号	温度范围 (℃)	温度波动 度 (℃)	显示精度 (±℃)	实际精度 (±℃)	容量 (L)	开口 (mm ²)	深度 (mm)	循环泵流 量 (L/min)	总功率 (KW)	外形尺寸 (mm)
ET-050 6	-5.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	7.5	180x160	150	6	0.80	320x370x680
ET-100 6	-1.000~ 100.00	0.03~ 0.05	0.01	0.05~0.10	7.5	180x160	150	6	0.90	320x370x680
ET-200 6	-20.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	7.5	180x160	150	6	1.00	320x370x680
ET-300 6	-30.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	7.5	180x160	150	6	1.35	320x390x790
ET-400 6	-40.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	7.5	180x160	150	6	1.50	320x390x790
ET-600 6	-60.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	7.5	180x160	150	6	2.30	750x600x1100
ET-700 6	-70.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	7.5	180x160	150	6	2.50	750x600x1100
ET-800 6	-80.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	7.5	180x160	150	6	2.70	750x600x1100
ET-051 0	-5.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	10	180x160	200	6	1.25	320x390x790
ET-101 0	-10.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	10	180x160	200	6	1.35	320x390x790
ET-201 0	-20.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	10	180x160	150	6	1.45	320x390x790
ET-301 0	-30.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	10	180x160	150	6	1.55	320x390x790
ET-401 0	-40.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	10	180x160	150	6	1.85	400x470x960
ET-601 0	-60.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	10	180x160	150	6	2.55	750x600x1100
ET-701 0	-70.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	10	180x160	150	6	2.75	750x600x1100
ET-801 0	-80.00~ 100.00	0.03~ 0.05	0.01	0.05~0.10	10	180x160	200	6	2.95	750x600x1100

型 号	温度范围 (°C)	显 示 精度 (°C)	温度波动度 (±°C)	实际精度 (±°C)	容 量 (L)	有效工 作开口 (mm)	有效工 作深度 (mm)	循环泵流 量 (L/min)	总功率 (KW)	外形尺寸 (mm)
ECH-100 6N	室温~100.00	0.01	0.03~0.05	0.05~0.10	6	Ø90	150	内循环	0.65	245x370x370
ECH-150 6N	室温~150.00	0.01	0.03~0.05	0.05~0.10	6	Ø90	150	内循环	0.70	245x370x370
ECH-200 6N	室温~200.00	0.01	0.03~0.05	0.05~0.10	6	Ø90	150	内循环	0.75	245x370x370
ECH-300 6N	室温~300.00	0.01	0.03~0.05	0.05~0.10	6	Ø90	150	内循环	0.85	245x370x370
ECH-100 8N	室温~100.00	0.01	0.03~0.05	0.05~0.10	8	Ø130	150	内循环	0.75	245x370x370

ECH-200 8N	室温~200.00	0.01	0.03~0.05	0.05~0.10	8	Ø130	150	内循环	0.85	245x370x370
ECH-300 8N	室温~300.00	0.01	0.03~0.05	0.05~0.10	8	Ø130	150	内循环	0.95	245x370x370
ECH-101 0N-2	室温~100.00	0.01	0.03~0.05	0.05~0.10	10	2-Ø80	150	内循环	0.95	265x370x370
ECH-201 0N-2	室温~200.00	0.01	0.03~0.05	0.05~0.10	10	2-Ø80	150	内循环	1.05	265x370x370
ECH-301 0N-2	室温~300.00	0.01	0.03~0.05	0.05~0.10	10	2-Ø80	150	内循环	1.20	265x370x370
ECH-101 5N-4	室温~100.00	0.01	0.03~0.05	0.05~0.10	15	4-Ø80	150	内循环	1.30	320x380x370
ECH-201 5N-4	室温~200.00	0.01	0.03~0.05	0.05~0.10	15	4-Ø80	150	内循环	1.45	320x380x370
ECH-301 5N-4	室温~300.00	0.01	0.03~0.05	0.05~0.10	15	4-Ø80	150	内循环	1.65	320x380x370

ET3916 seirs Multi Channel Temperature Detector

<p>ET3916 Seris Portable Thermostatic Oil bath</p>	
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MODEL	ET3916 Series	ET3916T Series
		ET3916-08、ET3916-16 ET3916-24、ET3916-32 ET3916-48、ET3916-64
Channels	8 channels ~ 64 channels	
Measurement Range	60mV	
Accuracy	0.05%FS	0.02%FS
Temperature Display Resolution	0.1℃	0.01℃
Supported Thermocouple Type	K、J、T、E、S、N、B、R (please check thermocouple sheet for details indicators)	
Cold Compensation Accuracy	±0.5℃	
Measuring Speed	Slow speed: 1 s/channel, medium speed: 0.5 s/channel	
Display Mode	numerical , curve, bar charts	
Calibration	isolated correction factor of each channel	
Alarm	Isolated alarm setting(upper upper limit, upper limit, lower limit, lower lower limit)	
Data Record Interval	1s	
Data Storage	8G	

High Resistance box /Megger calibration device

ZX79F DC high resistance box

Parameter

1.Overview of ZX79F parameters:

	gear (Ω)	×10 G	×1G	×10 0 M	×10 M	×1M	×10 0K	×10 K	×1K	×100
first part	precision (%)	5	2	1	0.5	0.2	0.2	0.2	0.2	0.2
	Rated voltage/current	5 KV	5 KV	5 KV	2.5KV	1 KV	0.5K	8 mA	20 mA	50 mA
second part	It consists of 9 fixed resistors with 100GΩ accuracy of 5% and rated voltage of 5KV									

An overview of the product parameters of the company's rotary

high-resistance box:

Model	Pressure value(KV)	Whether to bring terminal voltage Test function	number of switches	Indication range (GΩ)	smallest step (KΩ)	precision (%)
ZX79 F	5	No	9	0-1011.1111110	0.10	0.2-5

ZX119-10K Megger calibration device

1. ZX119-10KParameter overview:

First part	Gear(Ω)	×10 G	×1 G	×10 0M	×10 M	×1M	×100 K	×10 K	×1K	×100
	Accuracy (%)		5	2	1	0.5	0.2	0.2	0.2	0.2
Rated voltage/current		10KV	1KV	10KV	5KV	2.5KV	0.5KV	10m A	20mA	50mA
Second part	It consists of one 100GΩ and four 200G fixed resistors with an accuracy of 5% and a rated voltage of 10KV.									

2. Overview of product parameters of the company's entire series of rotary high-resistance

boxes:

model	耐压值 (KV)	bring terminal voltage test function	switch number	Indication range (GΩ)	minimum step (KΩ)	Accuracy (%)
ZX109-1	2.5	NO	6	0 - 1.111110	1	0.2-1
ZX109-2			6	0 - 11.11110	10	0.2-2
ZX109-3			6	0 - 111.1110	100	0.2-5
ZX119-2			8	0 - 21.1111110	0.1	0.2-2
ZX119-3	5	Yes	8	0 - 21.1111110	0.1	0.2-2
ZX119-4		NO	9	0 - 211.1111110	0.1	0.2-5
ZX119-8		YES	9	0 - 211.1111110	0.1	0.2-5
ZX79F		NO	9	0 - 1011.1111110	0.1	0.2-5
ZX119-8C		YES	9	0 - 1011.1111110	0.1	0.2-5
ZX119-9	10	NO	9	0 - 1011.1111110	0.1	0.2-5
ZX119-10K		YES	9	0 - 1011.1111110	0.1	0.2-5

ET3930-T200 wireless temperature verification

ET3930-T200 wireless temperature verification probe is powered by high temperature explosion-proof battery, no external power supply is required, and the working time can be up to 1 year. The probe can withstand a maximum temperature of 140°C, the measurement accuracy is $\leq 0.1^\circ\text{C}$, the resolution is 0.01°C , the sensor uses 1/3B German Heraeus thin film sputtering PT1000, and the short probe design can well complete the relevant verification work of water bath sterilizer, rotary water bath sterilizer, and pulsating wet heat sterilizer.

The probe can also be used for incubator and low-temperature refrigerator verification.

Technical indicators:	
Measuring range	-90°C~150°C
Temperature accuracy	$\pm 0.1^\circ\text{C}$
Resolution	0.01°C
Recording capacity	120,000 groups
Recording interval	0.5 seconds to 1 hour (programmable)
Battery life	>3 years (high temperature battery can be replaced)
Timing error	<3 seconds/24 hours
Physical properties:	
Material	316L medical stainless steel, PEEK
Weight	50g
Dimensions	$\Phi 25 \times 49$ mm (excluding probe)
Probe dimensions	$\Phi 1.8 \times 300$ mm (3 capillary probes) 5 without probes
Temperature sensor	PT1000 (1/3B)
Environmental parameters:	
Operating temperature	-80°C~140°C
Operating humidity	0~100% RH(submersible)
Operating pressure	≤ 5 bar
Explosion-proof grade	ExiaIIB T4 Intrinsically safe explosion-proof (ISO/IEC 17025-2005)
Calibration	
Product Calibration:	Metrology Institute/third-party calibration (fee required)

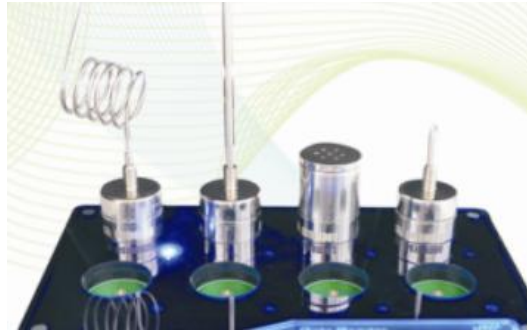


图 2 温度探头和读取器

(2) Wireless Pressure Verification Probe (ET3930-P200)

Applicable fields: moist heat sterilization verification, vacuum drying oven verification, etc.)

ET3930-P200 The pressure data logger is a high-precision, high-stability data recording product that we have carefully designed and is specially used for various sterilization validation and freeze-drying validation.

The instrument integrates the top sensor technology, computer technology, and communication technology, and combines a variety of accessories to complete the sterilization verification of moist heat, ethylene oxide, and freeze drying. The product is powered by a high-temperature explosion-proof battery and does not require any leads or external cables. The product's accuracy can reach $\pm 1\text{Kpa}$ in the temperature range of $-10^{\circ}\text{C}\sim+30^{\circ}\text{C}$ (other temperature ranges are: 2Kpa), and the resolution is 0.1Kpa .

Technical indicators:	
Measuring range	Absolute pressure 0~500Kpa
Pressure accuracy	$\pm 1\text{Kpa}$ ($-10^{\circ}\text{C}\sim+30^{\circ}\text{C}$)
Resolution	0.1Kpa
Recording capacity	120000 groups
Recording interval	2 seconds~1 hour (programmable)
Battery life	>36 months (battery replaceable)
Timing error	<25 seconds/24 hours
Physical properties:	
Material	316L medical stainless steel, PEEK
Weight	95g
Dimensions	$\Phi 25 \times 42 \text{ mm}$
Pressure sensor	Sapphire pressure sensor
Environmental parameters:	
Working temperature	$-40^{\circ}\text{C}\sim 135^{\circ}\text{C}$

Working humidity	0~100% RH(IP65 waterproof)
Working pressure	10~500Kpa
Explosion-proof grade	Exia IIB T4 Intrinsically safe explosion-proof (ISO/IEC 17025-2005)
Calibration	
Product Calibration:	Metrology Institute/third-party calibration (fee required)



(3) Data reading socket (DR200)

ET3930-DR200The data reading seat is a communication device used for multi-probe data setting and reading by Valtrace wireless verification software. This product uses a USB interface, and can automatically identify various data loggers, automatically poll, and transmit data with the system software. When in use, you can put the wireless verification probe in it, connect it to the computer via a USB data cable, open the Valtrace wireless verification system software, and transfer the data from the logger to the computer; in addition, you can also complete the initialization settings of various data loggers through the software.

Easy to read data, small size, light weight, easy to carry;

·USB communication interface, convenient to connect with various desktop or

laptop computers;

·USB power supply, no other power wiring required;

·System software can support up to 128 recorders;

·8 channels of data can be read at a time, and multiple groups of recorders can be replaced for reading;

ET389 Portable temperature and humidity standard box

Portable temperature and humidity standard box used to detect hair temperature and humidity meter (meter), wet and dry bulb temperature and humidity meter, mechanical temperature and humidity meter, digital temperature and humidity meter and other kinds of special verification equipment, to meet the military, measurement and detection departments and third-party calibration companies such as mobile cabin temperature and humidity sensor calibration.

Characteristics

Small size, light weight configuration casters convenient transportation, easy to go out testing

High index, high performance, precise control of temperature and humidity field

Observation window convenient observation operation hole more convenient operation display foldable space saving



III、 Technical parameters

Performance	Temperature and humidity range	5 to 60 ° C / 10 to 95% RH (20 ° C)
	Temperature fluctuation	Plus or minus 0.1 ° C or less
	Temperature uniformity	0.2 ° C or less
	Rate of temperature change	Plus or minus 0.1 ° C / min or less
	Humidity fluctuation (20°C)	≤± 0.6% RH
	Humidity uniformity (20 ° C)	≤ 0.8% RH
	Humidity change rate (20 ° C)	≤± 0.6% RH/min
Control sensor		Accuracy ±1.0%RH, ±0.1 ° C
Operating hole size (mm)		Φ 80
Front viewing window dimensions (mm)		300 * 270
Side viewing window dimensions (mm)		200 * 110

ET1000S Portable temperature and humidity generator

- Used for on-site calibration of various types of temperature and humidity sensors in environmental monitoring systems
- Used for sensor calibration in laboratories, sensor manufacturing plants and building environmental testing systems
- It can be used as a portable temperature and humidity source with a dew point meter to establish a higher temperature and humidity standard



Features

- The system error calibration of the measurement system can be performed online
- Military quality, stable and reliable
- Quickly stabilize to the set temperature and humidity point, high calibration efficiency
- Smallization, portable, can be placed horizontally and vertically, and it does not need to be drained for carrying
- Excellent stability and uniformity index, can achieve high accuracy humidity probe calibration

description

ET1000S temperature and humidity generator is a portable temperature and humidity generator, this equipment solves the major problem of long-term difficult calibration of temperature and humidity parameters of large and medium-sized measurement and control systems

, The inspection is changed to on-site inspection, which realizes the online calibration of temperature and humidity parameters. The machine can test and calibrate the temperature and humidity at the same time, and the work efficiency has been increased by five times, reaching the international advanced level. The equipment is light in weight and can be placed on any workbench in the laboratory or transported to any site for work.

The equipment uses the mixed flow method to generate relative humidity, the drying tube provides a low humidity source, and the internal humidifier provides high humidity. When the drying tube needs to be replaced, just open the cap on the rear panel, replace it with a new drying tube, or replace the desiccant. The machine only needs to use pure distilled water to work without compressed air or other additional liquids. The front panel provides liquid level status indicators. When the liquid level is lower than the minimum level, just fill the liquid tank with distilled water.



BX-500 IR calibrator (50-500degree)

BX-500 Portable Infrared Calibrator (Blackbody Furnace) is a handheld, compact infrared calibrator that can be calibrated over long distances.



Technical indicators

	BX-500
Temperature range	50°C—500°C
Basic accuracy	±0.5°C @ 100°C (±1.0°F @ 212°F)
	±1.2°C @ 500°C (±3.6°F @ 932°F)
	±0.1°C @ 100°C (±0.2°F @ 212°F)
	±0.3°C @ 500°C (±0.6°F @ 932°F)
Stability	
Target size	2.25"(57mm)
Emissivity	0.95
Resolution	0.1°C/°F
Response time	40minutes (most)
Cooling time	30minutes (100°C)
power	230VAC(±10%),1.5A/110V, 3A

East Tester[®]

HangZhou ZhongChuang Electron Co.,Ltd

Email:kent@east-tester.com

Whatsapp:+0086 13958062364