

2011

ConST CATALOG



Pressure & Temperature Calibration
Beijing ConST Instrument Technology Inc
2011-01-01

ConST Hot Selling Products

ConST product consists of an extensive line of high-precision pressure instruments, including digital pressure gauges, pressure calibrators, automatic pressure controllers, multi-function process calibrators and temperature calibrators. All of these products are widely used in power plant, Oil & gas, steel factory, petrochemical industry, aerospace firms, jet engine manufacture, electric utilities, nuclear power stations, pharmaceutical firms, calibration laboratories, government agencies, research organizations and so forth. Furthermore, ConST has expanded markets in European Union, Northern America, South-East Asia, Mid-east and other overseas regions.



Digital Pressure Calibrators	Digital Pressure Gauges	Multi-function Calibrators
<p>ConST273 is a microprocessor controlled, high-precision instrument powered by an internal Li-ion battery or a specified adapter. It is a convenient of high accurate pressure calibration instrument which can source 24V when calibrating transducers, switches... Advanced silicon technology delivers 0.02% full of scale accuracy in ranges to 600 bar, permits use in most harsh environments without degradation of accuracy. The lowest pressure is down to 40Pa, and the highest pressure is up to 2500bar.</p>	<p>The ConST211 is a high-resolution digital pressure gauge. As their robust design, these gauges meet stringent demands and can be used in critical industrial uses where special importance is attached to measuring accuracy, reproducibility, long term stability and protection against dust penetration. The ConST211 has an accuracy of 0.02%fs with temperature compensated across the range of 17°C to 23°C. It can be used in potentially explosive environments specified to EX ia IIC T4.</p>	<p>ConST316 is a temperature calibrator. It can measure and simulate 8 types of major TC (S, R, B, K, N, E, J, T), and 4 types of major RTD (Pt100, Pt10, Cu100, Cu50). Also, it can measure or source mV, V, mA, Hz, Pulse, Resistance and 24-source. ConST317 is a process calibrator. It contains the above mentioned functions. Furthermore, it can connect to pressure mouldes. ConST318 is the extended modle of ConST317. It contains HART ability.</p>
<p>Model: ConST273</p>	<p>Model: ConST211</p>	<p>Model: ConST316/317/318</p>
<p>Features</p> <ol style="list-style-type: none"> 1. HART Communication ability 2. Data logger: store 1200 data 3. High accuracy: 0.02% FS (20°C±3°C) 4. Self-protection ability for overpressure 5. 24V Source <p>Specification</p> <ol style="list-style-type: none"> 1. Pressure: 0 ...160mbar up to 2500bar 2. Accuracy: 0.02%FS, 0.05%FS 3. Media: clean dry gases for -1 to 2.5bar; compatible with 316SS for 2.5~2500bar 4. I/V/switch/24V measure: available 5. RS232: Available 6. Overpressure warning: 120% 7. Connector: M20*1.5, 1/2NPT, 1/2BSP 8. Weight: 0.9KG 	<p>Feature</p> <ol style="list-style-type: none"> 1. Pressure up to 2500bar (37500PSI) 2. High accuracy: 0.02% FS (20°C±3°C) 3. Long working time: up to 5,000 hours 4. % indication and bar graph for quick visual 5. Warning function for higher and lower limit <p>Specification</p> <ol style="list-style-type: none"> 1. Pressure: 0 ...160mbar up to 2500bar 2. Accuracy: 0.2%FS, 0.1%FS, 0.05%FS, 0.02%FS 3. Media: clean dry gases for -1 to 2.5bar; compatible with 316SS for 2.5~2500bar 4. Pressure units: Pa, Kpa, Kgf/cm2, inH2O, PSI, mbar, bar, MPa, inHg 5. Connector: M20*1.5, 1/2NPT, 1/2BSP 6. Size: gauge head is φ112mm*35mm 7. Weight: 0.6KG 	<p>Feature</p> <ol style="list-style-type: none"> 1. Smart phone-type operation, icon-menu. 2. Strong tasks management system 3. Thermal units exchange calculator 4. Automated cold junction compensation 5. 30V or 1A mis-operation protection <p>Specification</p> <ol style="list-style-type: none"> 1. TC range: -270°C to 1372°C Accuracy for TC: 0.2°C 2. RTD range: -200°C to 850°C Accuracy for RTD: 0.09°C 3. Cold junction range: -10°C to 50°C Cold junction error: 0.002%RD ± 0.001%fs 4. Pressure: 0 ...160mbar up to 600bar 5. Size: 192mm* 100mm*54mm 6. Weight: 720 gram

Calibration can be easy

Pressure Calibration Pumps

Experience, quality and innovation are key words that describe ConST Calibration Instruments

ConST113



Low pressure calibration pump

Pressure: 0 ± 0.4 bar (0 ± 40 kPa)
 Pressure resolution: 0.0001mbar (0.01Pa)
 Media: Air
 Ram/adapters material: 316 SS;
 Body material: Steel/aluminum;
 Seals material: Buna-N.
 Safety pressure: <4bar (<400KPa)
 Size: 230*130*125 (L*W*H mm)
 Weight: 1kg

ConST115



Portable pneumatic pump

Pressure: -95% vacuum to 4 bar
 Pressure resolution: 0.0001mbar (0.01Pa)
 Media: Air
 Ram/adapters material: 316 SS;
 Body material: Steel/aluminum;
 Seals material: Buna-N.
 Safety pressure: < 6bar
 Size: 285*220*120 (L*W*H mm)
 Weight: 3.8kg

ConST116



Pneumatic hand pump

Pressure: -95% vacuum to 25 bar
 Pressure resolution: 0.1mbar (10Pa)
 Media: Air
 Ram/adapters material: 316 SS;
 Body material: Steel/aluminum;
 Seals material: Buna-N.
 Safety pressure: < 70bar
 Size: 240*120*130 (L*W*H mm)
 Weight: 1.5kg

ConST117



Portable pneumatic pump

Pressure: -95% vacuum to 40 bar
 Pressure resolution: 0.1mbar (10Pa)
 Media: Air
 Ram/adapters material: 316 SS;
 Body material: Steel/aluminum;
 Seals material: Buna-N.
 Safety pressure: < 70bar
 Size: 315*198 * 140 (L*W*H mm)
 Weight: 3kg

ConST162



Tabletop pneumatic pump

Pressure: -95% vacuum to 120 bar
 Pressure resolution: 0.1mbar (10Pa)
 Media: Air
 Ram/adapters material: 316 SS;
 Body material: Steel/aluminum;
 Seals material: Buna-N.
 Safety pressure: < 180bar
 Size: 375*315*130 (L*W*H mm)
 Weight: 7.1kg

ConST131



Hydraulic hand pump-water

Pressure: -90% vacuum to 600 bar
 Pressure resolution: 1mbar (0.1KPa)
 Media: Oil or deionized water
 Ram/adapters material: 316 SS;
 Body material: Steel/aluminum;
 Seals material: Buna-N.
 Safety pressure: < 1000bar
 Size: 250*140 * 120 (L*W*H mm)
 Weight: 1.5kg

Calibration can be easy

Pressure Calibration Pumps & Solutions

Experience, quality and innovation are key words that describe ConST Calibration Instruments

ConST132



Portable hydraulic pump-water

Pressure: -90% vacuum to 700bar

Media: Oil or deionized water

Pressure resolution: 1mbar (0.1KPa)

Ram/adapters material: 316 SS;

Body material: Steel/aluminum;

Seals material: Buna-N.

Safety pressure: < 1050bar

Size: 290*198* 135(L*W*H mm)

Weight: 3.5kg

ConST181



Hydraulic pressure pump

Pressure: -90% vacuum to 700bar

Media : Oil

Pressure resolution: 1mbar (0.1KPa)

Ram/adapters material: 316 SS;

Body material: Steel/aluminum;

Seals material: Buna-N.

Safety pressure: < 1050bar

Size: 475*300 * 150(L*W*H mm)

Weight: 15kg

ConST182



Hydraulic pressure pump-water

Pressure: -90% vacuum to 700bar

Media: deionized water

Pressure resolution: 1mbar (0.1KPa)

Ram/adapters material: 316 SS;

Body material: Steel/aluminum;

Seals material: Buna-N.

Safety pressure: < 1050bar

Size: 475*300 * 150(L*W*H mm)

Weight: 15kg

ConST1005C



High pressure calibration pump

Pressure: 0 to 1000/1600/2500bar

Media: oil

Pressure resolution: 10mbar (0.1KPa)

Ram/adapters material: 316 SS;

Body material: Steel/aluminum;

Seals material: Buna-N.

Safety pressure: < 4000bar

Size: 400*375 * 200(L*W*H mm)

Weight:9.5kg

ConST1000-3



Fittings & Adapters

48pcs adapters

M10*1.0,12*1.0,12*1.25, 14*1.5,16*1.5,20*1.5

1/8NPT, 1/4NPT, 1/2NPT, 3/8NPT

1/8G,1/4G,1/2G,3/8G(BSP)

1/8ZG, 1/4ZG, 1/2ZG, 3/8ZG

60pcs fittings

SAE tap & Die (for thread repair)

Liquid Filter (Suitable for dirt gauge)

Gas Filter (Suitable for dirt gauge)

Flexible hose...etc

On-Site Calibration Solution



ConST116 + ConST273 (air)

Low pressure calibration solution

Pressure range: -90% vacuum up to 25bar

Accessories: hose,adapters, tools, kitbag

Whole system weighs 12 lbs/5.5 kg

ConST131 + ConST273 (oil)

High pressure calibration solution

Pressure range: -90% vacuum up to 600 bar

Accessories: hose,adapters, tools, kitbag

Whole system weighs 12 lbs/5.5 kg

Calibration can be easy

In-field Automatic Pressure Calibrator ConST811

Experience, quality and innovation are key words that describe ConST Calibration Instruments

In-field Automatic Pressure Calibrator ConST811- Air Media



In-Field Automatic Pressure Calibrator - Air

ConST811-DP: 0 ±20mbar (Accuracy: 0.05%FS)

0 ±400mbar (Accuracy: 0.02%FS)

ConST811-LP: -95% to 1.6bar (Accuracy: 0.02%FS)

0 to 7bar (Accuracy: 0.02%FS)

Feature

1. HART communication ability
2. Built-in electric pump can source accurate set-pressure quickly.
3. The perfect air pipeline protection can effectively avoid the blockage and leakage problems.
4. All jacks can provide protection of 30V mis-operation or short-circuit.
5. Automatic calibration and data analysis and data logging.

Specification

1. Measuring Voltage: ± 30V, 0.1mV resolution, ± (0.01%RD +0.005%fs)
2. Measuring Current: ± 30mA, 0.1uA resolution, ± (0.01%RD +0.005%fs)
3. Measuring On-Off: defective voltage is 3V~30V
4. Sourcing Current: 0 ~ 22mA, 1uA resolution, ± (0.02%RD +0.005%fs)
5. Sourcing DC24V: 24V±0.5V, the biggest loading voltage is 50mA.
6. Size: 296mmX186mmX180mm Weight: 5.6KG

Consulting & Training



Our service

If you are planning to expand your instrumentation, we will gladly provide our experience in the selection of the appropriate solution.

In collaboration with our team of calibration technology experts, we've already develop tailor-made solutions.

Our calibration courses are individually matched to your requirements and needs. Thus we can set the topics for the training and provide the on-site practice of calibration.

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