

The Calibration Reference



2019

TEST & WORKSHOP BENCHES— Configuration and Dimensions



DESCRIPTION

Test benches are ideal for maintenance shops, repair shops and calibration labs, designed to full respond to all customer needs, thanks to the modules system implemented in to the bench structure, standard or customized modules are available.

Ergonomic and easy to use, our test benches contribute to highlight a quality system, rational and net.

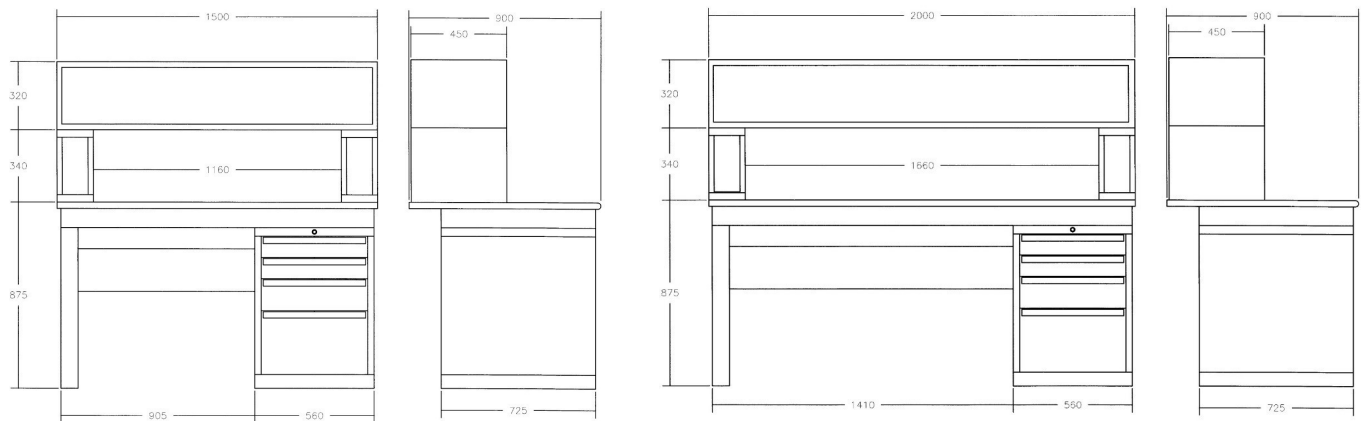
They are assembled following the customer's specific request, to ensure the best solution, as a tailored suit.

Specific modules are assembled if requested, or integrated with pre-existent instrumentation.

Metal work structure and components undergo a degreasing process before the painting, the painting is done with an epoxy powder coating with an oven polymerization around 180° C , thickness ≥ 50µm, colour Grey RAL 7035, different colour at request.

The main structure is heavy duty, load capacity 300 kg, work tables can be in Multilayer wood (40 mm thickness), or in a waterproof stratified board laminated on both sides (30 mm thickness), and if requested, fireproof & ESD version.

DIMENSIONS



WORK TOP



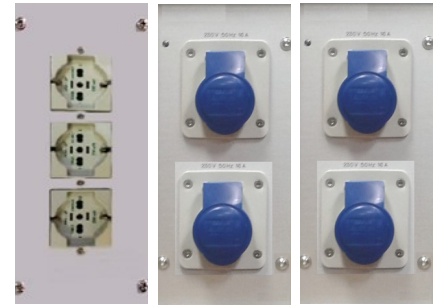
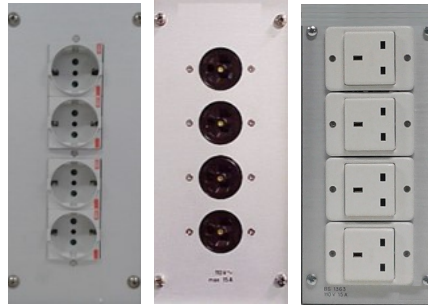
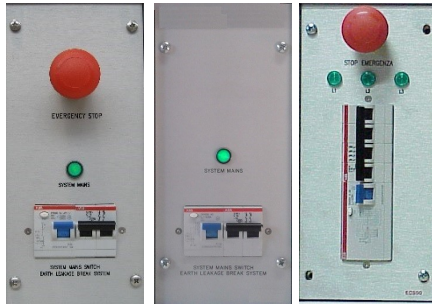
Bi-Laminated work top
 Dim: 2000 x 900 x 30 mm
 Dim: 1500 x 900 x 30 mm



ESD work top
 Dim: 2000 x 900 x 30 mm
 Dim: 1500 x 900 x 30 mm



Multilayer wood work top
 Dim: 2000 x 900 x 40 mm
 Dim: 1500 x 900 x 40 mm



**MAINS POWER SUPPLY MODULE
MODULE A6C001-XX SERIES**

All model with differential / magnetotermic switch, with or without emergency switch.

- 1 & 3 Phase Supply Unit
- Automatic Main switch 16A or 32A
- 230Vac or 110Vac 50/60Hz
- Green indicator light for Each Phase
- Emergency switch manual reset
- Fault current protection 0.03A for all module connected at the supply unit

Models

- A6C001-01: 120/230 Vac + Emergency
- A6C001-02: 120/230 Vac
- A6C002-03: 400Vac 3Ph + Emergency
- A6C002-04: 400Vac 3Ph

**AC STANDARD SOCKETS MODULE
MODULE A6C002-XX SERIES**

AC fixed sockets module that provides to supply instruments under test.

Output to the four mains sockets at different standards.

supply: 120 V AC to 230 V AC up to 15A

RCB protected with main supply module

Models

- A6C002-01: 4 x ITA & VDE 230 Vac
- A6C002-02: 3 x ITA10/16, DIN_VDE, NEMA
- A6C002-03: 4 x BS1393 220Vac
- A6C002-04: 4 NEMA 110/120 Vac
- A6C002-05: 4 x NEMA 220/240 Vac

**INDUSTRIAL SOCKETS MODULE
MODULE A6C002-XX SERIES**

AC fixed sockets module that provides to supply instruments under test.

Output to two mains sockets at CEE standards.

supply: 1ph 230 Vac or 3ph 400V ac 16A

RCB protected with main supply module

Models 1Ph

- A6C002-06: 2 x 120 Vac 16A 2P+N
- A6C002-07: 2 x 230 Vac 16A 2P+N


Models 3Ph

- A6C002-08: 2 x 400 Vac 16A 3P+N
- A6C002-09: 2 x 400 Vac 16A 3P+N+G


DESCRIPTION

MODELS


EXTRAS



Dimensions: 122x266 x 150 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months

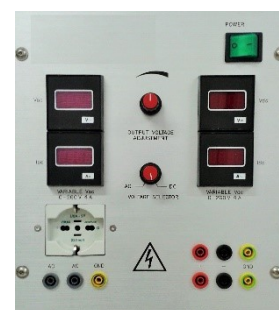
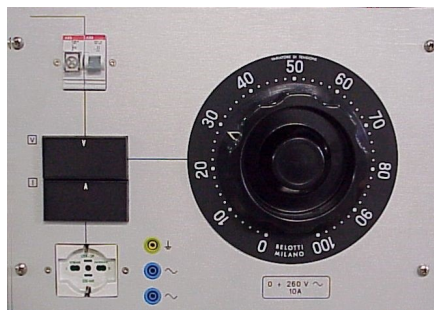


Dimensions: 122 x266 x 150 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months



Dimensions: 122 x266 x 150 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months

VARIABLE AC POWER SUPPLY MODULE



DESCRIPTION

VARIABLE AC POWER SUPPLY MODULE A6C003-XX SERIES

Automatic Main switch, Overload protection
 Input voltage 120 or 230Vca 50/60 Hz
 Output voltage 0 / 250Vac
 Variable Autotransformer up to 3A
 Digital indicator up to 500 Vca for Voltage
 Resolution 0.1/1V
 Digital indicator up to 10 Aca for Current
 Resolution 0,01A
 Output:
 CEE socket and 4 mm safety terminal

VARIABLE AC POWER SUPPLY MODULE A6C004-XX

Automatic Main switch, Overload protection
 Input voltage 120 or 230Vca 50/60 Hz
 Output voltage 0 / 250Vac
 Variable Autotransformer up to 10A
 Digital indicator up to 500 Vca for Voltage
 Resolution 0.1/1V
 Digital indicator up to 10 Aca for Current
 Resolution 0,01A
 Output:
 CEE socket and 4 mm safety terminal

VARIABLE AC & DC SUPPLY MODULE A6C005-XX

Input voltage 120 or 230Vca 50/60 Hz
 Output 1 = 0 – 250 Vac 50/60Hz
 Output 2 = 0 – 250 Vdc full wave rectified
 Current 3 or 5 A
 Input voltage 230V ca 50/60 Hz
 Motorized Variable Autotransformer
 Separate Output for AC & DC 4mm safety terminal
 Selector Ac or dc output
 Digital Voltmeter for ac and dc,
 Digital Ammeter for ac and dc

MODELS

Model	Voltage Input	Voltage Output	Power
-01	230 Vac	0/250Vac	3 A
-02	120Vac	0/140Vac	3 A
-03	120Vac	0/230Vac	3A

Model	Voltage Input	Voltage Output	Power
-01	230 Vac	0/250Vac	5 A
-02	230Vac	0/250Vac	10 A
-03	120Vac	0/140Vac	5A
-04	120Vac	0/140Vac	10A

Model	Voltage Input	Voltage Output	Power
-01	230 Vac	0/250Vac 0/250Vdc	3 A
-02	120Vac	0/140Vac 0/140Vdc	3 A
-03	120Vac	0/230Vac	3A

EXTRAS

Safety: compliance with EN61010-1
 EMC: compliance with EN61326

Operating temperature:
 +5 to +40°C 20% to 80% RH not condensing

Other sockets on request

Safety: compliance with EN61010-1
 EMC: compliance with EN61326


Operating temperature:
 +5 to +40°C 20% to 80% RH not condensing


Other sockets on request


Safety: compliance with EN61010-1
 EMC: compliance with EN61326

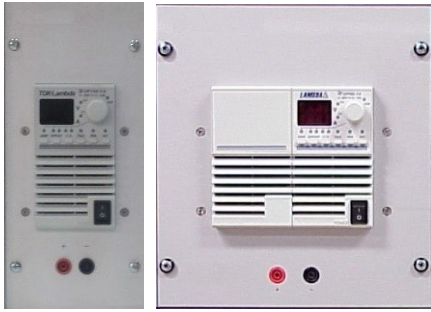
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Other sockets on request

 **Dimensions:** 242 x266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months

 **Dimensions:** 242 /380 x266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months

 **Dimensions:** 242 x266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months



**VARIABLE DC STABILIZED POWER SUPPLY
MODEL A6C006-XX**

Constant voltage / constant current
Output values: see table
Load regulation CV: 2mV + 0.005% Over 0-100% load
Line regulation CV: 1mV + 0,005%
Load regulation CC: 0,01% + 5mA
Line regulation CC: 0.01% + 2mA
Digital indicator for Voltage and current
Embedded microprocessor controller
RS 232 & 485 interface, GPIB on request

**LINEAR DC STABILIZED POWER SUPPLY
MODEL A6C006-XX**

Linear regulation For ultra-low noise
Output values: see table
Load regulation CV: 0.01% + 2mV
Load regulation CC: 0,01% + 500 uA
Line regulation CV: 0,01% + 2 mV for 10%
Line regulation CC: 0,01% + 250 uA for 10%
Ripple: 0,4 mV rms
Digital indicator for Voltage and current
RS 232, USB and LAN interface

**VARIABLE DC RECTIFIED POWER SUPPLY
MODEL A6C007-XX**

Automatic switch overload protection
Rectified & filtered
Output values: see table
Digital indicator for Voltage and current
Output 4 mm safety terminal
and CEE sockets for CC

DESCRIPTION

Model	Voltage	Current	Power
-01	0—36 Vcc	0—6 A	216 W
-02	0—60 Vcc	0—7 A	420 W
-03	0—120 Vcc	0—3,6 A	432 W

Model	Voltage	Current	Power
-04	0—15 Vcc	0—5 A	75 W
-05	0—30 Vcc	0—3 A	90 W
-06	0—60 Vcc	0—1,5 A	90 W

Model	Voltage Input	Voltage Output	Power
-01	230 Vac	0/50Vcc	15 A
-02	120Vac	0/140Vcc	3 A
-03	230Vac	0/250Vcc	3A

MODELS

Safety: compliance with EN61010-1
EMC: compliance with EN61326

Operating temp.: +5 to +40°C
Humidity: 20% to 80% RH not condensing

Cooling: smart variable-speed low noise fan


Safety: compliance with EN61010-1
EMC: compliance with EN61326


Operating temp.: +5 to +40°C
Humidity: 20% to 80% RH not condensing


Safety: compliance with EN61010-1
EMC: compliance with EN61326

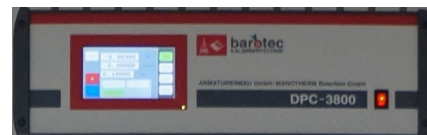
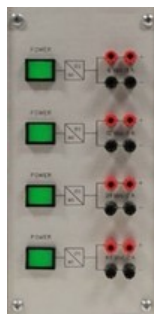
Operating temp.: +5 to +40°C
Humidity: 20% to 80% RH not condensing

EXTRAS

 **Dimensions:** 120 /240 x266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months

 **Dimensions:** 240 x266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months

 **Dimensions:** 240 x266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months



DESCRIPTION

**FIXED DC POWER SUPPLY
MODULE A6C008-XX SERIES**

1AC input 230Vac, (110Vac option)
DC output adjustable range $\pm 1\%$
Ripple see table model selection
Overload Protection range 05% - 130%
Constant current limit, autorecovery
Overvoltage protection, shut-down O/P
voltage, re-power on recovery
Over temperature protection
Working temperature -20 °C to 60 °C
four isolated 4 mm safety terminal

**PRESSURE INDICATOR MODULE
CUBE-P & CUBE-PP**

Configurable with one or two channels each or both for pressure.
Accuracy up to 0.02 % FS pressure
Ranges up to 700 bar
Pressure Resolution better than 0.001 % FS
Fully temperature compensated -10...50 °C
Data-logger & RS232 Connection
Measuring Fluid: Any fluid compatible with stainless steel
20 measuring unit: mbar - bar - Pa - hPa - kPa - MPa - kg/cm² - kg/m² - mmHg - cmHg - mHg - mH₂O - cmH₂O - mH₂O - torr - atm - psi - inHg - inH₂O - ftH₂O

**AUTOMATIC PRESSURE GENERATOR
DPC 3800**

Automatic pressure controller for absolute, relative and differential pressures in gas media. Several ranges are available from vacuum up to 250 bar. Accuracies up to 0.01% FS for each range. Thanks to the Ethernet port more controllers can be connected in a network to manage complex situations (multiple fields, productions, etc.). The controller has an integrated web-server that can publish pages dedicated to the calibration or testing without the need to install additional software on individual PCs.

MODELS

Model	Voltage V	Current A	Ripple mV
-01	3,3	5	80
-02	5	5	80
-03	12	5	80
-04	24	5	100
-05	48	2	100
-06	120	2	100

Model	Range bar	Resolu- tion bar	Accuracy
-01	-0.5 / 0.5	0.0001	0.02%f.s.
-02	-1 / 1	0.0001	0.02%f.s.
-03	-1 / 7	0.0001	0.02%f.s.
-04	-1 / 20	0.0001	0.02%f.s.
-05	0 / 50	0.0001	0.02%f.s.
-06	0 / 100	0.0001	0.02%f.s.
-07	0 / 200	0.0001	0.02%f.s.
-08	0 / 400	0.0001	0.02%f.s.
-09	0 / 700	0.0001	0.02%f.s.

Specifications
Medium: air, nitrogen (other on request)
Accuracy: 0,01 % FS

Ranges relative (bar):
-1...1; 0...2; -1...3; 0...5; -1...10; 0...20; -1...30; 0...60; -1...100

Ranges absolute (bar):
0...1; 0...3; 0...10; 0...30

Ranges differential (mbar):
-30...30; -100...100; -300...300

Communication: RS-232, Ethernet RJ-45, (optional: IEEE-488.2 or output 4-20 mA)
Display: Color Touchscreen
Optional: software DynaCal for the calibration reports generation
Compatible with LabVIEW

EXTRAS

Safety: compliance with EN61010-1
EMC: compliance with EN61326


Operating temperature:
+5 to +40°C 20% to 80% RH not condensing

Safety: compliance with EN61010-1
EMC: compliance with EN61326


Operating temperature:
+5 to +40°C 20% to 80% RH not condensing

Safety: compliance with EN61010-1


Operating temperature:
+5 to +40°C 20% to 80% RH not condensing



Dimensions: 121 x 266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months



Dimensions: 483 x 132 x 350 mm
Rack Unit: 3U
Warranty: 1 year, extendible to 24 months



Dimensions: 483 x 132 x 350 mm
Rack Unit: 3U
Warranty: 1 year, extendible to 24 months



**VACUUM GENERATION & REGULATION
MODEL P6C002-XX**

Module is designed to generate vacuum, from external electrical vacuum pump. Module includes precision fine adjustment, increase vacuum valve, decrease vacuum valve, two plug.in connectors, 60 mm dial gauge to monitoring vacuum.

Electric Supply: 230 Vac 50Hz, (110 Vac opt)
 Power: 0.25 KVa
 Pumping speed: 4.6 m³/h
 Stages: 2
 Ultimate vacuum:1 mbar residual

**HAND PUMP VACUUM / PRESSURE
MODEL P6C003**

Module is designed to generate pressure and vacuum signals, for testing pressure instruments and precision pressure air supply.

The module includes:
 manual pump to generate from -0.9 to 20 bar,
 precision pressure regulator
 vent button
 pressure/vacuum switch
 N° 2 pneumatic connections

**PRESSURE REGULATION LOW & HIGH
MODULE P6C001-XX**

Module is designed to generate pressure signals, for testing pressure instruments and precision pressure air supply, module include a gauge and a precision pressure regulator. Regulated pressure circuit by external air supply through the built in precision pressure regulator.
 Two plug-in output and input connectors.

Model	Voltage	Residual Vacuum	Power
-01	230V 50Hz	1 mbar	250 VA
-02	110V 60Hz	1 mbar	500 VA

Model	Max INPUT Bar	Regulate OUTPUT bar	Media
-01	35	0.03/ 2	Clea Air
-02	35	0.1/ 10	Clea Air
-03	35	0.1/14	Clea Air
-04	35	0.1/21	Clea Air
-05	35	01/28	Clea Air
-06	415	0.7/105	Nitrogen
-07	415	1/170	Nitrogen
-08	415	1.7/275	Nitrogen
-09	415	3.5/410	Nitrogen

Safety: compliance with EN61010-1
 EMC: compliance with EN61326


Operating temp.: +5 to +40°C
 Humidity: 20% to 80% RH not condensing

Safety: compliance with EN61010-1


Operating temp.: +5 to +40°C
 Humidity: 20% to 80% RH not condensing

Safety: compliance with EN61010-1


Operating temp.: +5 to +40°C
 Humidity: 20% to 80% RH not condensing



Dimensions: 121 x266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to24 months



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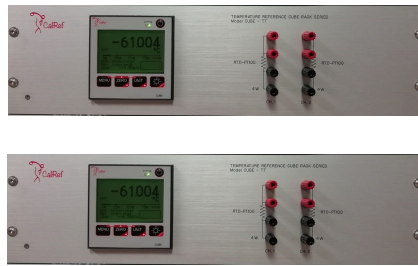
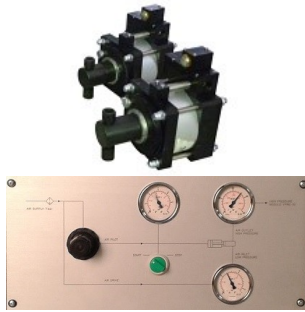
DESCRIPTION

MODELS

EXTRAS

PRESSURE MODULE

TEMPERATURE MODULE



DESCRIPTION

**GAS / HIDRAULYC PRESSURE BOOSTER
MODEL P6C004**

The Pressure Booster transforms low input pressures into high output pressures due to variable section pistons. Extremely quiet is also suitable for laboratory applications.

Nominal pressure from 300 up to 1500 bar (Available 16 different ranges)
Single effect, double effect or dual stage
Low noise levels even at high cycle rate
Optional: Hydraulic command
For use with nitrogen, helium, and most of

**TEMPERATURE INDICATOR MODULE
CUBE-T & CUBE-TT**

Configurable with one or two channels each or both for Temperature
RTD PT 100 4W
Temperature Resolution better than 0.001 °C
Fully temperature compensated -10...50 °C
Data-logger & RS232 Connection

**SECONDARY LEVEL Resistance Temperature
Probe Models: RTD2-385 & RTD2-392**

Working temperature: -80...450 °C
Nominal resistance at 0 °C: 100 Ω
RTD2-385: 0.00385 Ω/°C
RTD2-392: 0.00392 Ω/°C
Stability: 0.07 °C
Extension wires length and material: 4 wires in silvered copper, 2500 mm long shielded-teflon/teflon insulated
Outer sheath material: Stainless steel AISI 316
Sheath diameter and length: 6x500 mm
Measurement current: 1 mA
Case: Wooden

MODELS

EXTRAS

Safety: compliance with EN61010-1

Operating temp.: +5 to +40°C
Humidity: 20% to 80% RH not condensing

Safety: compliance with EN61010-1
EMC: compliance with EN61326

Operating temp.: +5 to +40°C
Humidity: 20% to 80% RH not condensing

	Dimensions: 483 x 266 x 550 mm
	Rack Unit: 6U
	Warranty: 1 year, extendible to 24 months

	Dimensions: 483 x 132 x 350 mm
	Rack Unit: 3U
	Warranty: 1 year, extendible to 24 months

	Dimensions: Dia 8mm x 600 lenght
	Rack Unit: N.A.
	Warranty: 1 year, extendible to 24 months



**MULTIFUNCTION CALBRATOR MODULE
S6C001**
Up to 4 CHANNEL MEASURE / SOURCE

Simulation & Measurement

Temperature (mV) Up to 0.008 % RDG+0.002%FS
Resistance Up to 0.008% RDG + 0.002%FS
Current: Up to 0.007 % RDG and 100 mA range + Loop Supply 24 V
Voltage: Up to 0.008 % RDG + 0.002%FS
Frequency: Up to 0.01 %

**MULTIFUNCTION CALBRATOR MODULE
S6C002**
Up to 4 CHANNEL MEASURE / SOURCE

Simulation & Measurement

Temperature Up to 0.005 % RDG
Resistance Up to 0.006 % RDG and 50 KΩ range
Current: Up to 0.007 % RDG and 100 mA range Loop Supply 24 V
Voltage: Up to 0.005 % RDG and 50 V range
Frequency: Up to 0.01 % RDG and 100 KHz range

**DECADE RESISTIVE MODULE
S6C003-XX**

Adjustment accuracy: ± 0.02%

The precision indicated refers to the terminals, and then is that which considers the overall resistance of zero.
The resistors are in manganin wire (±10 ppm/°C temperature coefficient) wrapped in uninductive way.
A suitable curing process guarantees long-term stability: 10 ppm in the first year and max 20 ppm in three years.
The switches have a contact resistance less than 0.02Ω in time invariant.

DESCRIPTION

Reading / Simulation Range:

RTD	PT 100, 200, 500, 1000, NI 100, 120, CU10, 100
TC	J,K,T,F,R,S,B,U,L,N,E,C
mA	-100 / 100 (reading)
mA	0-20 (simulation)
mV	+/- 100
V	2, 80
Ohm	0 / 10 KOhm (reading)
Ohm	0 / 10 Kohm (simulation)
Hz	50 KHz
Hart	Hart Module

Reading / Simulation Range:

RTD	PT 100, 200, 500, 1000, NI 100, 120, CU10, 50
TC	k, T, J, E, R, S, B, N, Mo, NiMo/NiCo
mA	0-20, 4-20, -100 / 100 (reading)
mA	0-20 (simulation)
mV	-10 / 100
V	1, 10, 50
Ohm	400, 3600, 50KOhm (reading)
Ohm	400, 3600 (simulation)
Hz	1000Hz, 100KHz
Hart	N. A.

code SECTION Ω

-01	10 x (1+10+100+1K+10K+100K+1M)
-02	10 x (0.1+1+10+100+1K+10K+100K)
-03	10 x (1+10+100+1K+10K+100K)
-04	10 x (0.1+1+10+100+1K+10K)
-05	10 X (1+10+100+1K+10K)
-06	10 x (0.1+1+10+100+1K)
-07	10 x (1+10+100+1K)
-08	10 x (0.1+1+10+100)
-09	10 x (1+10+100)
-10	10 x (0.1+1+10)

MODELS

Safety: compliance with EN61010-1
EMC: compliance with EN61326

Operating temperature:
+5 to +40°C 20% to 80% RH not condensing


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EXTRAS



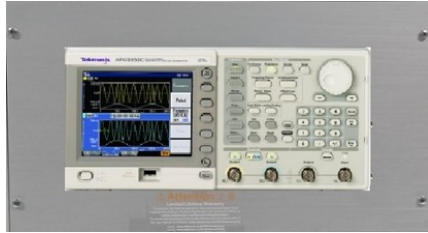
Dimensions: 483 x266 x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months



Dimensions: 483 x266x 350 mm
Rack Unit: 6U
Warranty: 1 year, extendible to 24 months



Dimensions: 483 x 132, 177, 266 x 350 mm
Rack Unit: 3, 4, 6 U
Warranty: 1 year, extendible to 24 months



DESCRIPTION

**ARBITRARY FUNCTION GENERATOR
S6C004-XXXX**

General Features AFG3000 series
AFG3000C Series of Function, Arbitrary Waveform, and Pulse Generators the most useful instruments in the industry.

**DIGITAL MULTIMETER MODULE
S3C005**

6.5 Digit Resolution
Basic VDC Accuracy of up to 0.0024%
100 mV to 1000 V Voltage Range
100 μ A to 10 A Current Range
10 Ω to 1 G Ω Range
Volts, Ohms, and Amps Measurements
True RMS (AC, AC + DC)
Measurements Diode
Temperature and Capacitance Measurements
2x4 Ohms 4-wire Measurement

**DIGITAL STORAGE OSCILLOSCOPE MODULE
S6C006-XXXX**

The TBS2000 Series oscilloscopes help you get more done in less time.
USB 2.0 device port on the rear panel for easy connection to a PC or for direct printing to a PictBridge[®] -compatible printer.
Includes National Instrument's LabVIEW SignalExpress[™] TE Limited Edition and Tektronix OpenChoice[®] Software for connecting to the bench

MODELS

Model	3011C	3021C
Frequency range	1uHz - 10MHz	1uHz - 100MHz
Channels	1	1
Waveforms	Sine, Square, Pulse, Ramp, Triangle, Gaussian, Lorentz, Haversine, DC, Noise	Sine, Square, Pulse, Ramp, Triangle, Gaussian, Lorentz, Haversine, DC, Noise
Setting resolution	1uHz – or 12 digits	1uHz – or 12 digits
Memory dept	128k	128k

Model	8845A	8846A
Vac	750V ca	750V ca
Vdc	1000V cc	1000Vcc
I ac	10A ac	10A ac
I dc	10A cc	10A cc
Ohm	1GOHM	1GOHM
Frequency	300KHz	300KHz
Diode	yes	Yes
Capacitance	-	Yes
Temperature	-	600°C
USB memory	-	yes

Model	2102	2104
Bandwidth	100 MHz	100 MHz
Channels	2	4
External	Each channel	Each channel
Trigger		
Sample rate each channel	2.0 GS/s	2.0 GS/s

EXTRAS

Safety: compliance with EN61010-1
EMC: compliance with EN61326


Operating temp.: +5 to +40°C
Humidity: 20% to 80% RH not condensing


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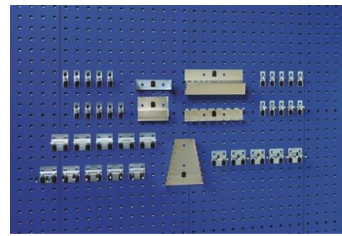
	Dimensions: 483 x132 x 350 mm
	Rack Unit: 6U
	Warranty: 1 year, extendible to24 months

	Dimensions: 483 x266 x 350 mm
	Rack Unit: 6U
	Warranty: 1 year, extendible to24 months



Cable Support

Comfortable support mountable on the structure of the bench that helps maintain a work station clean and net.



Hook Kit:

Hook kit for supporting tools, accessory available only for bench series with perforated panel.



Magnifier Lamp:

Classic round 22w daylight lamp with round glass lens and quick positioning handle, ideal for close-up and intricate work.



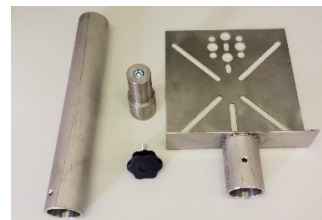
Soldering/Desoldering Station:

Ideally suited for use in repair and laboratory environments as well as for production, design and R&D application.



ESD Bench Mat:

Available in different colours and size, low reflection, easy to clean, manufactured from rubber.



Support:

Support for external transducer, manometers or other, consisting in a support attached to the work table and two different type of braces, ideals for bulky and heavy tools.

Typical Configurations



Calref offers a turnkey design and supply service for customer requiring.

Heavy-duty versions of CalRef are available in 2m or 1.5m width system. Each bench is made up of a bearing metal structure, ideal for industrial workshops. This provides a solid basis, making these benches suitable for maintenance work on electromechanical instruments.



electronic laboratory, corner frame



electromechanical workshop, linear frame



Electrical workshop, linear frame



Typical Configurations

Electrical workshop test bench



Pressure workshop test bench

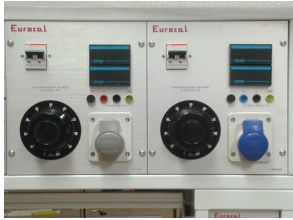


Pressure laboratory test bench



modular configuration for testing and calibration in workshop and laboratory

Power supply ac & dc



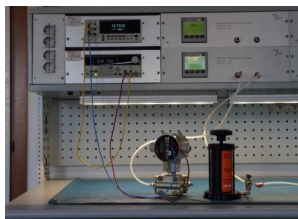
User friendly



Typical electrical test bench



Calibration of a electronic pressure transmitter



Compact & rugged



Reference Instruments



Typical electro-pneumatic and temperature test bench





Who we are, What we do

CalRef is a dynamic company strongly oriented to problem solving and Customer needs satisfaction. The market sector in which **CalRef** works is the industrial and laboratory instruments calibration. The **CalRef** team has twenty years experience in the measurement and calibration field. Among the offered services: realization of turn-key calibration laboratories with support for the accreditation; metrology consulting; quality management systems consulting; training courses; calibration, maintenance and repair of measuring instruments. Among the products we offer: calibration equipments for pressure measurements; calibration instruments for temperature measurements; air data testers; custom calibration benches; fittings and valves for high pressure; tools.

Metrological Training

CalRef offers training courses in Italy and abroad on a wide range of topics. The courses can be both group and customized according to customer requirements.

Among the courses offered: basic metrology; metrological laboratories management; ISO 17025 requirements; pressure measurements; operation and maintenance of pressure balances, temperature measurements, others.

Metrological and Quality System Consulting

CalRef can assist you or take charge of your needs in the field of Metrology & Quality.

With twenty years of experience as Accredited Calibration Centers Managers and Quality Management Systems Manager, according to different standards (ISO 17025, ISO 9001, ATEX Directive), **CalRef** is a trusted advisor for the realization of calibration laboratories and the set up of quality systems. The assistance during any phase of certification and /or accreditation completes the counseling.

Calibration Services & Repairs

To fulfill the needs of maintaining reliable the instruments operation, we offer calibration and repair services as well. Please contact us for additional information.

Autorized dealer:



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