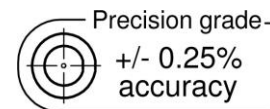
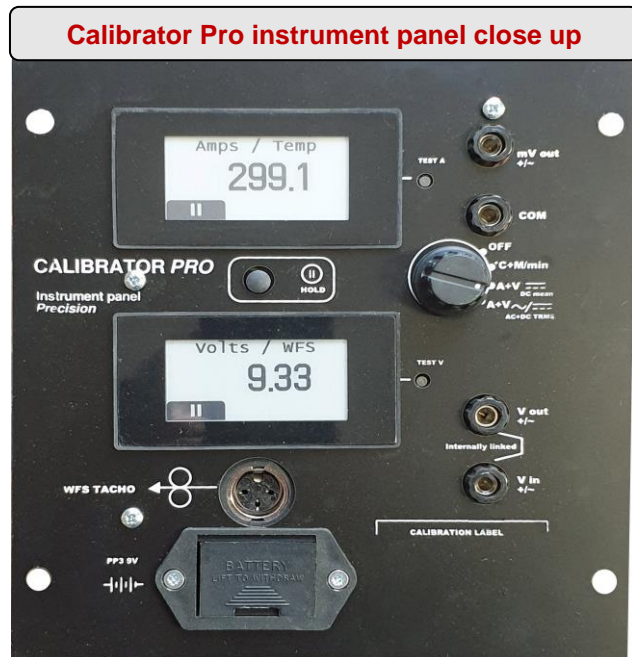




Load test & calibrate all arc welding processes MIG/MAG, MMA, TIG, SUB ARC, PLASMA WELD, GMAW, FCAW, SMAW, GTAW, SAW, PAW. – Works with every make & model. Calibrator Pro 1200 is our heaviest duty load bank. Over 1200 amps of loading capability, fan cooling & precision instruments combined with fast simple operation - just plug in & test in seconds.



Key functions & features (with instrument panel fitted)

- Power handling capability up to 1400A max for the heaviest duty testing.
- Fan cooled design allows extended duty cycle testing at high amperages.
- Super fast calibration & testing on any weld set –calibrate & certification in less than 10 minutes.
- Unique aluminium construction – weight only 42kg yet rugged & robust for industry use.
- Calibrate/test to all international standards BS, IEC, EN, DIN, ISO, ANSI.
- Compliance with EN1090, ISO9000, ISO9001, ASQ quality standards.
- Test A & V DC, AC T-RMS, complex waveforms, temp °C, wire feed speed (with optional plug in).
- Digital hold / un-hold function to capture instrument values.
- Extra Dix socket allows connection to calibrate real welding parameters instead of resistive load.
- Parallel 95mm input cables to minimise on load voltage drop.
- 4mm output terminals allow external DMM (Fluke etc) to display Voltage & current on multi-meter.
- Self test calibration function for operator verification of accuracy prior to use.
- TIG HF proof design, with overvoltage protection to 230V & current overload to 200%.
- Good range of main loads + 6 step fine step loads for precise setting on all welding processes.
- High stability precision electronics + self test function = extended calibration period to 1 year.
- Guaranteed temperature stability from 0°C - +40°C ambient & capable of operation to over 50°C

Unbeatable long term back up; 1 year warranty, 15 year guarantee of parts & service availability & unlimited technical support via email/phone.

PTO for more detailed information & technical specifications

1200A extra high power load bank

TECARC Calibrator models were first launched in 2008. Competitive pricing combined with superb portability, fast, easy operation & reliable results mean these are trusted by Engineers all over the world & have become the leading global product for welding equipment calibration & test.

Calibrator Pro 1200 has been developed in response to recent updates to the IEC standards. This is the replacement to our earlier Calibrator 1600i model.

Calibrator Pro 1200 offers significant improvements on earlier models - see below.

- Accuracy, repeatability & temperature stability exceed precision grade requirements, for compliance with the toughest international requirements such as aerospace, nuclear industries & scientific testing.
- Display mean DC volts & Amps, true AC RMS Volts & Amps, AC & DC complex waveform values such as pulse MIG & TIG, ambient temperature °C, & wire feed speed (with optional tachometer Pro unit).
- Volts now displays to 2 decimal places; amps display now to 1 decimal place + hold function to lock values if needed.
- Instrument panel now slopes back for better visibility & displays are sunlight readable up to 5M away.
- DIX connector now allows monitoring of real welding parameters instead of using the internal resistive loads, ideal for automated welding & integrated or inaccessible systems.
- Instrument panel removes in less than a minute for fast & easy recalibration.
- Power supply for instrument panel is now a replaceable PP3 9V battery, efficient design with auto shut down & auto wake up results in around 150-200 tests before replacement. Low battery shut down is also included.
- Improved internal case design with doubled panels at critical points to withstand tough use in industry.
- Forced cooling using powerful fan design to give very high duty cycle ratings for the most demanding applications.
- Improved load resistor mount design, to minimise 'ringing' vibration noises in transport.
- Now with 6 fine control switch steps instead of 5 & greater load range from 2A@10V to 52A@44V.
- 4mm output terminals allow plug in of an external DMM, this allows readings of both voltage & current to be displayed on a Fluke or similar & can also be used for verification & recalibration of the instrument panel.
- Built in TIG 'HF' suppression stops HF from reaching the instrument panel & the 4mm output terminals to protect DMM.

Models & technical specifications.

Model	Calibrator Pro 1200
Main power load switches	8 of - 45A, 75A, 105A, 125A, 175A, 200A, 230A, 250A
Fine control switch & rating	6 step, from 2A@10V-25A@21V Max 52A@44V @100% duty cycle
Approx max load (all switches on)	0.03Ω, (1400A@42V – maximum short term load)
Instrument accuracy@20°C Valid for 1 year, 3% range-100% range. Temp coefficient 0°C-+40°C range +/-0.004%/°C TRMS AC/DC 20-300Hz sinewave or squarewave.	Amps DC +/-0.25% rdn+2 counts Volts DC +/-0.25% rdn+2 counts Amps AC +/-0.25% rdn+3 counts Volts AC +/-0.25% rdn+3 counts WFS M/min +/-0.25% rdn+3 counts Temp +/-0.25% rdn+2 counts
Volts display read range	0.00V -100.00V
Amps display read range	0.0A - 1250.0A
Wire speed display range	0.00M/min – 40.00M/min
Resolution	0.02V, 0.3A, 0.02M/min, 0.3°C
Main load duty cycles	100% duty cycle @ marked A value
Main load overload capability	125%A=60 secs, 150%A=30 secs, 200%A=10 secs
Total load duty cycle	33KW@100%, 66KW@50%
Overvoltage protection to input volts	230V AC/DC 3 secs
Recalibration period	1 year
Case size approx. mm	310Wx660Lx600H + ext hardware
Weight approx..	43kg (includes connection cables)
Power supply for fan cooling	230V 1.3A (optional 110/115V supply).

The instrument panel on Calibrator Pro 1200 uses high stability precision electronics, including patented RMS precision converters, the result is superb accuracy, linearity & temperature stability, typically 10 times more precise than a good quality Fluke clamp on ammeter. This also allows precise measurement of complex AC/DC waveforms including pulsed MIG & TIG. In addition, the calibration period has now been extended to 1 year. Note; A clamp on meter & load bank is unlikely to offer compliance with current calibration standards.

The range of resistive loads fitted to our Calibrators is designed to test all welding power sources to the internationally recognised Amps to volts formula. (MIG/MAG 14+0.05V, TIG/WIG 10+0.04V, MMA + SUB ARC/SAW 20+0.04V. The operator can select any combination of loads including the fine control to achieve 100's of different load variations, this allows the required current & voltage to be easily selected.

There is no other product on the market offering the versatility, ease of use, speed & accuracy as our Calibrator Pro models. Calibration & documentation of welding machines is carried out with ease in under 10 minutes.

The most popular Calibration standard in the world is now IEC 60974-14 (BS EN60974-14) we include information, guides & sample certificates in our instruction manual to assist you in working to this standard. In addition, we can provide training & certification to show competence to the standard.


IEC60974-14 standard also requires calibration of wire speed where the function is available to calibrate, many modern MIG/MAG models now require this, our plug in Tachometer Pro provides the easiest & fastest way to compliance.

PTO for standard supply, options & accessories.

Standard supply – complete calibrator Pro 1200 with instrument panel

Model & part number	Calibrator Pro 1200
Standard Supply Full function unit	Calibrator Pro 1200 fitted with precision instrument panel. 1.7M connection cables 95mm doubled c/w 12mm lugs. Castors wheels. Calibration certificate traceable to National Standards with ultimate traceability to UKAS lab. Instruction manual in English.

Accessories, options & upgrades

Description	Picture	Part number
Tachometer Pro (plugs into instrument panel) for precise measurement of WFS. A long rotary wheel is fitted with a replaceable rubber end, this provides a good pick up area for measuring directly onto welding wire. The long narrow design of the pick up wheel also allows easy access into wire drive rollers for direct measurement of drive roll speed. Fitted with 1M cable & plug.		CALPROT001
Euro adaptor fitted with switch for on/off & DIX socket to allow easy connection & operation on MIG/MAG machines.		CALPROE001
Calibration software package – simple, user friendly & fast to use, just a few inputs & calculations are done automatically with pass/fail confirmed. Save customer details etc ready for next machine, fast & efficient. We can add your company details as a header so you can print professional colour certificates directly from a laptop or save for later printing.		CALPROS001
Training on correct use of Calibrator Pro load banks & Calibration to BS EN IEC60974-14 (3 options)		
<ol style="list-style-type: none"> 1) At our works address in York UK 2) At your address 3) Online via MS Teams 		
<p>SAFE-ARC 1000 – our portable safety testing machine for welding equipment to allow compliance with BS EN IEC60974-4.</p> <p>Testing to IEC60974-4 is the correct way to ensure weld sets are safe for use.</p> <p>The calibration standard IEC60974-14 recommends testing to IEC60974-4 prior to calibration</p> <p>Please see www.tecarc.com for further info</p>		SAFE-ARC 1000

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