



Electrical test equipment
for the manufacturing
and hire industries



World Leading Electrical Test Solutions

For over 70 years, manufacturers of electrical products have relied on Clare test equipment to ensure that their electrical products comply with the required performance and safety standards.

Now manufactured under the Seaward brand, the Clare range is used on production lines and in test laboratories all over the world to safely and effectively verify the safety and performance of millions of electrical products every day. Seaward products are backed up with a reputation for reliability and expertise.

Serving a long list of organisations across the globe, Seaward promises excellent customer service; providing a full solution to hire/rental and production line testing including EN50191 compliance, and offering advice on which test equipment will meet your business and compliance needs.

Seaward manufacturing and hire/rental products meet international approvals testing to the following standards:

BSI, BEAB, ASTA, BABT, VDE, UL, CSA, The Lighting Association, HAE, EN60598, EN60335, EN60950, EN61010, EN60745 and many more.

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The Seaward Group produces product ranges for six individual sectors, enhancing electrical safety testing across an array of markets:

- Portable appliance & installation test equipment
- Ohmmeters, resistance standards & decodes
- Manufacturing & hire/rental sector testers
- High & low voltage test equipment
- Renewables industry test equipment
- Biomedical industry test equipment

Fracino use the advanced, multi-function HAL 104 to test product reliability, to ensure they operate correctly and to the highest standard in performance and safety. It's a fast and efficient automatic manufacturing solution.

“The HAL 104 is an important part of our safety testing processes. It is quick and very easy-to-use, enabling production line staff to complete all the required electrical safety tests and record the results at one press of a button.”

HAL Series

Versatile range of production line testers



The HAL comprehensive safety testers offer outstanding levels of flexibility and functionality to dramatically improve the quality and productivity of production line safety testing.

With a range of different tests and functionality, the HAL series provides a solution for any production line testing requirement from low volume manual testing through to high volume automated test programmes. The large display and simple push-button operation makes the process of testing straightforward and fast, ensuring your production line continues to efficiently meet the demands of any number of quality and safety standards.

A choice of automatic, manual or direct PC modes offers maximum flexibility for use and control of the HAL series.

Automatic mode provides a structured, repeatable route to testing through storing complete test sequences in the internal memory of the instrument, making it ideal for the production line environment.

For environments where flexibility of test parameters and diagnostic checks are required, a manual mode enables individual tests to be performed easily.











For those wanting a fully automated approach, simple command protocols can be used in order for the HAL series tester to be controlled via a PC or other device.

The HAL 104 can communicate with a PLC (programmable logic controller) to aid automated test processes, including remote start / stop and pass / fail outputs.

UK and international variants available.

Key Features:

- Fully configurable automatic test sequences
- Compatibility with label printer and barcode scanner
- Ideal for mid to high volume production line testing

-  Earth Bond
-  AC Dielectric Strength
-  DC Dielectric Strength
-  Insulation Resistance
-  Earth Leakage
-  Touch Leakage
-  ARC Detection
-  Results Storage
-  Software Compatible
-  Label Printer / Barcode Scanner Compatible

► HAL 104

The flagship product in the HAL series, the HAL 104 is designed to dramatically improve the efficiency and productivity of production line testing and features:

Advanced integration options

- Analogue inputs allow testing to be recorded on the HAL from external devices e.g. recording the speed of a motor whilst in operation
- Digital outputs enable control of external devices using relay control e.g. switching matrices
- Compatibility with PowerSmart and SwitchSmart for advanced automation

Full complement of electrical safety tests

- Power/leakage measurement for operational, safety and quality checks.



The HAL LED is ideal for testing LED lighting

► HAL LED

The HAL LED has been designed with a reduced power measurement range with greater resolution than the HAL 104, making it ideal for the testing of low power electronics such as LED lighting.

► HAL 103

The HAL 103 is a comprehensive tester capable of performing dielectric strength, earth/ground bond and DCIR tests.

► HAL 102

The HAL 102 is a DCIR tester with 5 channel scanner, enabling up to 5 tests to be performed in sequence on either the same product or a group of products, without any need for human intervention.

► HAL 101

The HAL 101 is a simple dielectric strength and DCIR tester, enabling one test point or product to be tested at any one time



	HAL 101	HAL 102	HAL 103	HAL 1014	HAL LED
Earth/ground bond			✓	✓	✓
AC dielectric strength	✓	✓	✓	✓	✓
DC dielectric strength	✓	✓	✓	✓	✓
DC insulation resistance	✓	✓	✓	✓	✓
ARC detection	✓	✓	✓	✓	✓
Leakage				✓	✓
Load power				✓	
Load power (200mVA resolution)					✓
Power factor				✓	✓
Results memory	✓	✓	✓	✓	✓
Automation option	✓	✓	✓	✓	✓
Barcode scanner/printer option	✓	✓	✓	✓	✓
Internal scanner		✓			

► Technical Specification

Earth/Ground Bond Test – 104, LED, 103, 102,

Test Voltage	6V AC Nominal
Frequency	50Hz or 60Hz (Independent of supply)
Output Current Range	0.1A – 40.0A
Display Range	0 – 1500mΩ

Insulation Resistance Test – 104, LED, 103, 102, 101,

DC Output Voltage	0.10kV – 6.00kV (10V/step manual) (50V/step auto)
Display Range	0.03MΩ – 350MΩ 350MΩ – 500MΩ (Indication Only)

AC Dielectric Strength Test – 104, LED, 103, 102, 101,

Programmable Voltage Range	0.10kV – 5.00kV (10V/step manual) (50V/step auto)
Frequency Independent of Supply	50Hz or 60Hz
Display Range (Current)	0.01mA – 20.00mA
Optional Arc Detection	9 Levels

DC Dielectric Strength Test – 104, LED, 103, 102, 101,

Programmable Voltage Range	0.10kV – 6.00kV (10V/step manual) (50V/step auto)
Display Range	0.01mA – 10.00mA
Optional Arc Detection	9 Levels



Scan QR code for full specifications

Power and Leakage Test – 104 & LED

Test Voltage	110V – 230V AC (Mains Supply) 80V – 300V (Via Auxiliary Input) 20A nominal (Vin-Vout)
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Output Power Measurement – 104

Single Phase Power	0.02kVA – 5.000kVA
Measurement Display Range	

Output Power Measurement – LED

Single Phase Power	000.0 – 999.9VA
Measurement Display Range	

Single Phase Power Factor Measurement

Display Range	Ratio 0.000 – 1.000
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Leakage Current Measurement

Display Range	0.10mA – 20.00mA
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Touch Current Measurement

Display Range	0.02mA – 5.00mA
Measuring Device	IEC/EN 60990 Fig 4 (IEC/EN 60990 Fig 3 or Fig 5 Upon Request)

Power Requirement

Operating Voltage	Selectable 115V or 230V AC RMS 50Hz / 60Hz
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Mechanical Specification

Dimensions (HxWxD)	300 x 200 x 370mm
Weight	15kg Approx



Sentinel Series

Cost effective dielectric strength testers



The Sentinel series of test instruments has been designed to provide a cost effective, yet powerful solution to dielectric strength testing, whether on a production line or in a laboratory environment for compliance testing purposes.






With the ability to perform either 5kV AC or 6kV DC dielectric strength tests, and up to 500VA AC power output the Sentinel series can aid type testing to many international safety standards. With many features the Sentinel series ensures testing is performed accurately, efficiently and overall safely.

UK and international variants available.

	Sentinel 200	Sentinel 500	Sentinel 501
Earth/ground bond			✓
AC dielectric strength	✓	✓	✓
DC dielectric strength	✓	✓	✓
DC insulation resistance			✓
500VA		✓	✓
ARC detection	✓	✓	✓

Key Features:

- Flexible and high resolution test parameters
- 100mA Trip current capability
- Ideal for production line and laboratory testing

-  Earth Bond
-  AC Dielectric Strength
-  DC Dielectric Strength
-  Insulation Resistance
-  ARC Detection



► Technical Specification

Earth/Ground Bond Test – Sentinel 501 Only,

Test Voltage	6V AC Max
Frequency	50Hz or 60Hz (Independent of supply)
Settable Output Current Range	3A – 32A
Selectable Range of Pass/Fail Levels	10mΩ – 650mΩ

Insulation Resistance Test – Sentinel 501 Only,

DC Output Voltage	50V – 1000V
Display Range	0.001GΩ – 50.00GΩ

AC Dielectric Strength Test Sentinel 200, 500, 501

Programmable Voltage Range	0.100kV – 5.000kV (2V/Step Resolution)
Frequency Independent of Supply	50Hz or 60Hz
Display Range	0.001mA – 40.0mA (Sentinel 200) 0.001mA – 100.0mA (Sentinel 500, 501)
Optional Arc Detection	Yes

DC Dielectric Strength Test – Sentinel 200, 500, 501

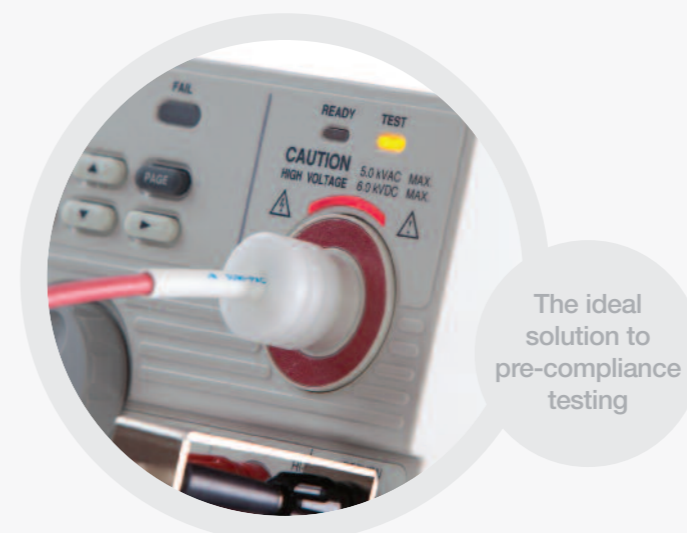
Programmable Voltage Range	0.10kV – 6.00kV (2V/Step Resolution)
Display Range	0.001mA – 10.0mA (Sentinel 200) 0.001mA – 20.0mA (Sentinel 500, 501)
Optional Arc Detection	Yes

Power Requirement

Operating Voltage	100V / 120V / 220V / 230V ±10% AC RMS 50Hz / 60Hz
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Mechanical Specification

Dimensions (HxWxL)	Sentinel 200: Approx. 148 x 330 x 452mm Sentinel 500: Approx. 148 x 330 x 482mm Sentinel 501 Approx. 148 x 330 x 587mm
Weight	27kg Max



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STM/L

Bench-mounted manual production line safety tester



Key Features:

- Simple manual and semi-automatic safety testing
- Compatibility with label printer and barcode scanner
- Ideal for low-mid volume production line testing

-  Earth Bond
-  AC Dielectric Strength
-  Insulation Resistance
-  Earth Leakage
-  Touch Leakage
-  Results Storage
-  Software Compatible
-  Label Printer/Barcode Scanner Compatible

A versatile bench mounted safety tester, ideal for simple manual testing or with varying degrees of automatic test sequencing.

With earth/ground bond, insulation resistance, dielectric strength, leakage, short-to-case and run/load tests, the STM/L meets the needs of manufacturers who require a range of fundamental safety tests to be carried out on a variety of electrical and electronic products.

It is easy to operate with a full QWERTY keypad and on screen instructions whilst a built in memory for 6,000 test results ensure traceability.

The option to use the tester with a barcode scanner and the Desk Test n Tag label printer further speeds up the testing process and enables test tags, labels and test reports to be quickly produced.

UK and international variants available.



► Technical Specification

Earth/Ground Bond Test

Test Voltage	6V AC Nominal
Frequency	As Supply (50Hz or 60Hz)
Output Current Range	25A / 10A / 4A / 100mA
Display Range	0.04Ω – 20Ω

AC Dielectric Strength Test

Voltage Range	1.5kV (Class 1) / 3kV (Class 2)
Display Range	0.1mA – 10.00mA

DC Insulation Resistance Test

Voltage Range	250V, 500V DC
Display Range	100kΩ – 50MΩ

Earth/Ground Leakage (Load Leakage)

Output Voltage	Mains Supply
Display Range	0.1mA – 20mA

Substitute Leakage (Short to Case Test)

Test Voltage	40V AC nominal at 230V / 110V supply
Display Range	0.1mA – 20mA

Power/Run/Load Test

Display Range	0 – 4.2kVA
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IEC Power Cord Test

Test Voltage	40V AC
Test Performed	Earth/Ground, Live & Neutral continuity & polarity

Power Requirement

Operating Voltage	103V – 126V, 207V – 253V, 45Hz – 65Hz
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Mechanical Specification

Dimensions (HxWxL)	155 x 450 x 410mm
Weight	9kg



A versatile solution to production line testing



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B433R

Analogue earth/ground bond tester



The B433R is a simple to use earth/ground bond tester with a 25A test current suited to manufacturing or laboratory environments.

This earth/ground bond tester can deliver a test current of 25A through a resistance/impedance of 0.1Ω from a low voltage AC source. This earth/ground bond tester meets the general requirements of the majority of international test standards that relate to earth/ground bonding measurement.

UK and international variants available.

► Technical Specification

Earth/Ground Bond Test

Output Current 25A AC through 0.1Ω
 Test Voltage 7.5V
 Display Range 0 – 1Ω Analogue Display

Power Requirement

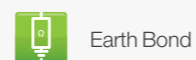
Operating Voltage 220V or 230V, 50Hz or 60Hz, Specified at time of order

Mechanical Specification

Dimensions (HxWxL) 230 x 335 x 255mm
 Weight 8kg

Key Features:

- Simple analogue earth/ground bond tester
- Easy to use manual test operation
- Ideal for low volume safety testing



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Lincat use the HAL to run pre-programmed testing to guarantee product quality performance and reliability, ensuring compliance with BS EN 60335.

“The HAL is an excellent instrument which works very well, providing fast, accurate and reliable testing. It offers peace of mind because it produces standard test results and traceability is an added benefit which contributes to improve after-sales support and customer service.”

Horizon II

Wiring analyser with AC and DC dielectric strength tests



The Horizon II bench top wiring analyser enables 128-point cable testing with modular expansion capability up to 1024 points capable of performing continuity and dielectric strength testing up to 1500V DC and/or 1067V AC. The Horizon II has a vast range of optional connection plates available for the most common types of cable interfaces.

Standard test capability includes fault location, automatic product learning, component detection and real-time intermittent open/short detection.

Its key features include a fully updated Windows-based user environment, colour touch-screen, real-time temperature and humidity monitoring, expanded I/O, flash disk data storage and improved ergonomics.

UK only (international variants unavailable).

	V AC	V DC	HC
HV1-H2		1000	1A fixed
HV2-H2		1500	1A fixed
HV3-H2	1067		1A fixed
HV4-H2	1067	1500	1A fixed
HV5-H2	1067	1000	1A fixed
HV6-H2			1A fixed

Key Features:

- Self learning capability for pin connections
- Expansion capability up to 1024 points
- Ideal for cable and cable harness manufacturers

-  AC Dielectric Strength
-  DC Dielectric Strength
-  Insulation Resistance
-  Results Storage



► Technical Specification

Functions

AC Dielectric Strength	1067V
DC Dielectric Strength	1000V or 1500V
Measurement Speed	500 point net in less than a second
Continuity Threshold	300Ω
Isolation Threshold	80Ω

Power Requirement

Operating Voltage	110 / 220V AC, 50Hz / 60Hz
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Mechanical Specification

Dimensions (HxWxL)	175 x 532 x 278mm
Weight	15kg – main unit

Low Voltage Resistance Measurements

	Range	Accuracy	Resolution
2W (2)	0.1Ω to <2MΩ	±2.5%, ±20mΩ (HC/FHC)	1mΩ or 3 digits
	0.1Ω to <2MΩ	±5.0%, ±50mΩ (MSR)	1mΩ or 3 digits
	2MΩ to <10MΩ	±7.0%, ±1KΩ	3 digits
	10MΩ to <25MΩ	±15.0%, ±10KΩ	3 digits
	25MΩ to <50MΩ	±30.0%, ±10KΩ	3 digits
4W (2)	10mΩ to <400Ω	±2.5%, ±20mΩ	1mΩ or 3 digits
MSR	10mΩ to <400MΩ	±3.5%, ±30m (>128 points)	1mΩ or 3 digits
4W HCS	1mΩ to <400Ω	±2.5%, ±1mΩ	1mΩ or 3 digits
4W FCS	1mΩ to <400Ω	±2.5%, ±1mΩ	1mΩ or 3 digits
Compliance	50pF to 1μF	±4.0%, ±2pF	1mΩ or 3 digits
	1μF to 10,000μF	±10.0%, ±1pF	3 digits



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Total solutions for increased efficiency



Whatever your system integration needs, Seaward has the answer. With a number of smart modules designed to improve the functionality of your safety tester as well as a host of accessories and consumables to improve the productivity and traceability of your production line testing regime.

Seaward provides its customers with a total solution approach to electrical safety testing, and also supplies a range of accessories to help you meet EN50191, the European standard governing the safe erection and operation of electrical test installations; including enclosures, beacons and hand switches – See page 20.

Test Enclosures



Key Features:

- Improves safety on the production line
- Can be incorporated into test systems
- High quality aluminium extruded parts



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Seaward test enclosures provide a safe environment for products to be tested and also maximise the productivity of the test process. They help meet the EN50191 standard for the Erection & Operation of Electrical Test Equipment.

Using a test enclosure can effectively simplify the test process. Seaward enclosures are designed using high quality aluminium extruded parts; impact resistant clear plastic panels and door safety interlock switches.

The test enclosures are compatible with any test instrument in the Seaward manufacturing/hire range, and are built to order, please contact us for details.

UK and international variants available.

SwitchSmart

Eight-channel switching matrix

Used in conjunction with the HAL 104 or HAL LED tester, the SwitchSmart provides the capability for automatic electrical safety testing between multiple test points or multiple products simultaneously. Allowing for unrivalled speed and efficiency coupled with a high level of safety that the modern production line demands.

This modular eight channel switching matrix can be programmed for each switch port to perform all of the test functions of the HAL 104 or HAL LED. The SwitchSmart offers a simple yet high-specification testing system. The unit can be used with the HAL 104/LED alone or integrated into larger automation projects.

Used with the Safety e-Base software program, even greater flexibility is possible with the ability to allocate bespoke test sequences to specific product / part numbers.

UK only (international variants unavailable).



Key Features:

- Increase safety, efficiency and productivity
- 16 switching ports providing 8 channels
- Up to 256 sequential tests on a single product
- Electrical testing of up to 4 products simultaneously



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► Technical Specification

Test Terminal Voltage

Range 0 – 5000V AC
50Hz – 60Hz
0 – 6000V DC

Power Requirement

Operating Voltage 110V – 230V
50Hz – 60Hz
3A Maximum

Test Terminal Load Current

Range 0 – 16A per connection
Duration Unlimited

Mechanical Specification

Dimensions (HxWxL) 300 x 200 x 370mm

PowerSmart

Industrial leakage test module



Compatible with the HAL 104, the PowerSmart modules allow full load and leakage testing on products rated greater than 16A. With two modules available, single and three phase, full testing can be performed on industrial electrical equipment, quickly, efficiently and with the full traceability offered with the HAL series.

UK only (international variants unavailable).

► Technical Specification

AC/DC Dielectric Strength*	0 – 3750V AC	Load Measurement	0 – 12.5kVA (as displayed on the HAL104)
Test Voltage Capability*	0 – 5000V DC	Leakage Measurement	0 – 10mA
Load Test Voltage Range	0 – 300V AC (50Hz / 60 Hz)		
Load Current	0 – 50A (50A MAX Rating)		

*Test voltages supplied from the HAL104

Key Features:

- Single and three phase configuration
- Up to 50A per phase testing
- Load measurement to 12.5kVA



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SafeCheck 8

Bench-mounted automatic safety tester



The SafeCheck 8 offers a slick and easy way for electrical safety tests to be carried out on Class I and Class II tools and equipment as well as IEC extension power cords within the hire and rental sectors.









This bench-mounted tester incorporates automatic test sequences and can be used with a barcode scanner for further productivity improvements.

Test results are clearly displayed on the large LCD screen whilst the internal memory ensures up to 5000 results are stored for traceability. If used in conjunction with the Desk Test n Tag printer, pass and fail labels can be printed with ease.

UK and international variants available.

Key Features:

- Class I, Class II and IEC power cord tests
- Bench mounted and easy to use
- Ideal for the hire and rental sectors

-  Earth Bond
-  AC Dielectric Strength
-  Insulation Resistance
-  Earth Leakage
-  Touch Leakage
-  Results Storage
-  Software Compatible
-  Label Printer/Barcode Scanner Compatible



► Technical Specification

Earth/Ground Bond Test

Test Voltage	6V AC Nominal
Frequency	As Supply (50Hz or 60Hz)
Output Current Range	25A / 10A / 4A / 100mA
Display Range	0.04Ω – 20Ω

Dielectric Strength Test

Voltage Range	1.25kV (Class 1) / 2.5kV (Class 2)
Display Range	0.1mA – 10mA

DC Insulation Resistance Test

Test Voltage	500V / 250V
Display Range	0.1MΩ – 99.99MΩ

Substitute Leakage (Short to Case Test)

Test Voltage	40V AC nominal at 230V / 110V supply
Display Range	0.1mA – 20.0mA AC

Earth/Ground Leakage

Output Voltage	Mains Supply
Display Range	0.1mA – 20.0mA AC

Power / Run / Load Tests

Measured Load	0 – 4.2kVA
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IEC Power Cord Test

Test Voltage	40V AC
Test performed	Earth/Ground, Live & Neutral continuity & polarity

Power Requirement

Operating Voltage	103V – 126V, 207V – 253V, 45Hz – 65Hz
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Mechanical Specification

Dimensions (HxWxD)	155 x 450 x 410mm
Weight	9kg



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B255

Bench-mounted analogue safety tester



The B255 is a simple to use manual electrical safety tester. Providing all the tests required to check Class I and Class II tools and equipment, the B255 is ideal for those looking for a simple solution to electrical safety testing where handwritten test records and labels are preferred.

UK only (international variants unavailable).

► Technical Specification

Earth Bond Test

Test Voltage 8V Nominal
Output Current 25A, into 0.1Ω
Display Range 0 – 1Ω analogue display

Dielectric Strength Test

Test Voltage 500V, 1250V AC
3000V, 3750V AC
Display Range 5mA / 10mA indication lamps

Load/Run Test

Display Range 230V, 0 – 15A – Analogue Display
110V, 0 – 25A (Via external supply) – Analogue display

Protective Conductor/Touch Current Tests

Display Range 0 – 5mA analogue display

Power Requirement





Operating Voltage 230V, 16A, 50Hz

Mechanical Specification

Dimensions (HxWxL) 180 x 400 x 250mm
Weight 10kg

Key Features:

- Class I and Class II tests
- Manual and analogue safety tester
- Ideal for low volume testing

-  Earth Bond
-  AC Dielectric Strength
-  Earth Leakage
-  Touch Leakage



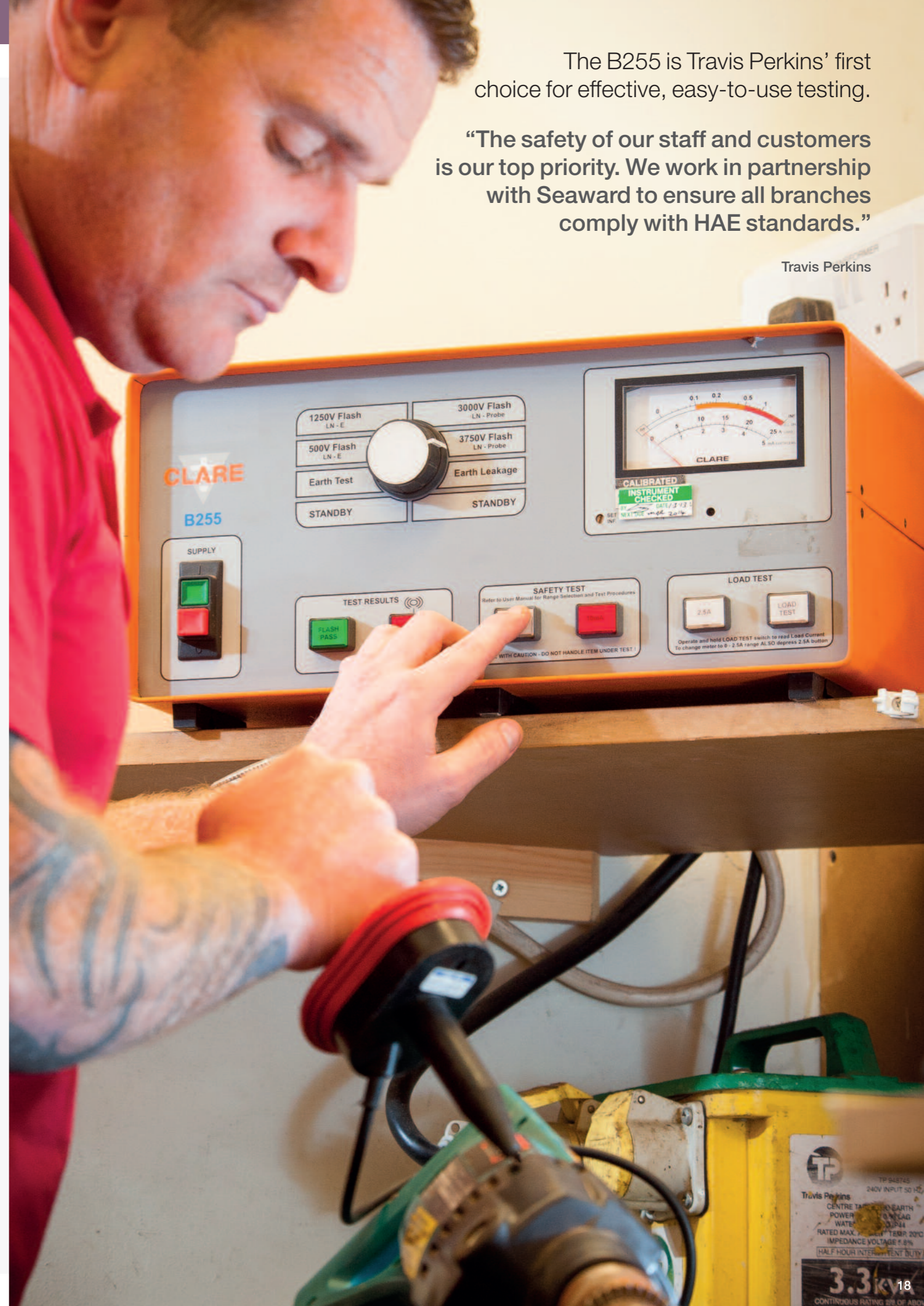
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The B255 is Travis Perkins' first choice for effective, easy-to-use testing.

“The safety of our staff and customers is our top priority. We work in partnership with Seaward to ensure all branches comply with HAE standards.”

Travis Perkins



Safety e-Base

Production line productivity software

Safety e-Base Pro has been designed to ensure production line testing is not only fast and simple, but also reliable and fully customisable to meet the unique needs of any given production environment

Used in conjunction with a HAL series safety tester, Safety e-Base Pro delivers supreme productivity, enabling totally customisable test sequences to be set up and operated via a PC from any safe, convenient location, even away from the production line if required.

Intuitive user-interface is taken a step further with the ability to provide user prompts in text or picture format – operators can be guided step-by-step on what to do next, saving time and reducing the risk of human error.

Total traceability of results is made possible through virtually unlimited storage, with results being stored on a PC or network drive.

UK and international variants available.



PATGuard 3

Record management software

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PATGuard 3 is an easy-to-use software program which enables you to record, store and report on a range of health and safety requirements including electrical safety test results, risk assessments and other work place test and inspections.

Tag records with images as visual evidence, schedule retest periods and produce professional reports and certificates for total traceability.

PATGuard 3 is compatible with a wide range of Seaward electrical safety test equipment.

UK only (international variants unavailable).

EN50191 Compliance Accessories

Our range of accessories help you comply with the EN50191 standard for safe erection and operation of electrical test equipment.

Beacons: Compatible with the HAL series, STM/L, SafeCheck 8 and B255 testers to provide clear indication that the test area is currently active.

Rubber matting and barriers: To ensure a prohibition zone can be achieved and adhered to.

Hand held guard switches: Ensure that the operator must press and hold a switch during testing in order that the test instrument will engage and produce an output.



Productivity Accessories

A range of accessories designed to help you increase the efficiency of safety testing.

Desk Test n Tag printer: For use with many of the Seaward manufacturing and hire/rental testers, this rugged printer uses a thermal transfer process to ensure highly durable and tear resistant labels.

Desk Test n Tag labels: A variety of virtually indestructible colour labels are available for use with the Desk Test n Tag printer.

Barcode scanner: Use this barcode scanner with the HAL series, STM/L and SafeCheck 8 tester to improve speed of testing and reduce human error by automatically loading test sequences and product ID from a barcode label.

Output Box: Provides a means of quick connection to a standard mains plug for testing with the HAL 101 or 102.



Verification Accessories

A range of accessories is available to help verify that your Seaward test equipment is working within specification in between calibration intervals.

Fault Simulators: Use a fault simulator daily to verify that your test equipment is operating within specification. Fault conditions ensure that the trip circuits are working as designed.

V242: This verification unit enables the user to verify that their tester is working within expected performance levels in between formal calibration intervals.



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