



World leader in package
and product integrity test
equipment.

INDUSTRIAL PHYSICS Inks & Coatings

Our Brands Protect Your Brand



About

Industrial Physics Inks & Coatings

Industrial Physics Inks & Coatings Segment

The Industrial Physics Inks & Coatings segment offers instrumentation for the test, measurement and analyses of inks, coatings and general surface treatments. Our products are used across many industries ranging from coating manufacturing, infrastructure and automotive to marine, beverage and canning and general production. Brands in this segment include TQC Sheen (coating test equipment), C&W Specialist Equipment (corrosion and environmental test cabinets) and Fibro system (measurement equipment for dynamic surface properties) and Sheen Instruments (appearance, physical testing and viscosity equipment) .

TQC Sheen

The TQC Sheen brand is known for innovative paint test equipment. TQC Sheen offers a wide variety of products, including a range of viscosity meters, appearance meters, coating thickness gauges, automatic film applicators and bresle patches. All products are designed to meet the highest quality standards.



C&W Specialist Equipment

C&W corrosion and environmental test cabinets are designed to continuously deliver the environmental test conditions demanded by modern industry. Through reliability, ease of operation and robust construction, C&W test cabinets have gained worldwide acceptance with applications in all major sectors of automotive manufacture as well as the paint, surface and coatings, chemical, electronics, aerospace, military and offshore industries.

Fibro system

Fibro system develops innovative technology to measure dynamic surface properties of materials. Examples include contact angle, absorption, dimensional stability, smoothness, print quality and

moisture. Featured products are the Pocket goniometer PGX + and the dynamic absorption tester DAT.

Sheen Instruments

Sheen Instruments offers viscosity measurement solutions, which nowadays are used worldwide in laboratories and production facilities. The viscosity range covers viscosity cups according to many standards and electronic devices for viscosity measurement of Newtonian or Non-Newtonian fluids for R&D, QC, or consistency analysis.

For more information please visit: www.industrialphysics.com/ic



TQC Sheen, C&W Specialist Equipment, Fibro System and Sheen Instruments production facilities are located in The Netherlands



TQC Sheen, C&W Specialist Equipment, Fibro System and Sheen Instruments have distributors in more than 60 countries

Instrument per Industry



AB3075	Grindometer Tool	•							
AB3600	Drying Time Recorder	•							
AB3650	AFA Compact	•							
AB4120	Automatic Film Applicator Standard	•							
AB6000	Scrub Abrasion and Washability Test	•							•
AB8000	CureView	•	•						•
CX3005	CurveX 3 - Basic Oven Logger		•						
CX3015	CurveX 3 - Standard Oven Logger		•						
DC7100	Dewcheck		•	•					•
DC9000	Hull Roughness Gauge				•				•
DI0080	Inspector Flashlight	•			•				
DV1401	Rotational Viscometer	•	•						•
DV2000	Rotothinner		•						•
GL0010	Glossmeter	•	•						•
LD2051	Surface Roughness Comparator				•				
LD3020	ISO 8501-1:2007				•				
LD5850	PowderTAG		•	•					
LD5900	Conveyor Ground Tester		•						•
LD6058	Positector 6000		•	•					
LD6515	Bresle Kit				•				
LD7016	Ultrasonic Thickness Gauge "Pro"				•				
LD8100	Low Voltage Pinhole Detector		•						
LD9330	PosiTest Adhesion Tester				•				
SH0530	Mechanised Scratch Tester	•							
SH0581	Automatic Panel Sprayer	•							•
SH1349	Digital Krebs Viscometer (480)	•							•
SH1693	Cone and Plate	•							•
SP0010	Hardness Test Standard	•			•				
SP0500	Pendulum Hardness Tester	•							
SP1100	Paint Inspection Gauge				•				
SP1700	Cross Cut Adhesion Test	•	•	•					
SP1822	Cylindrical Bend Test	•	•						
SP1880	Impact Tester	•							
SP3000	Cross Cut Adhesion Test Kit	•	•	•					
SP3200	Dust Test Kit		•	•					
SP4000	Wet Film Thickness Gauge WG		•	•					
SP7316	Pretreatment Test Kit "Full"				•				
TB5270	Comprehensive Abrasion Test	•							
SP4500	Automatic cupping Tester	•							•
TM0081	Sling Psychrometer				•				
VF2095	Pressure Density Cup	•							•
VF2097	Pyknometer	•							
VF2378	Pencil Hardness Test acc. Wolff Willborn	•							
VF6606	RAL K7		•	•					
CW....	Salt Spray Cabinets						•		•
CW....	CCT Cyclic Corrosion Test Cabinets						•		•
CW....	Humidity Conditioning Cabinets						•		•
CW....	Humidity Cabinets						•		•
PG1000	Pocket Goniometer PXG+							•	•
PG1050	Dynamic Absorption Tester							•	•

 Paint Laboratory

 Corrosion Testing

 Industrial Finishing


 Surface Tension


 Protective Coatings


 Global Services

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Paint Laboratory

For research and control of lacquers,
paints and coatings.



Cylindrical Bend Test



SP1820

Determine the elasticity adhesion and elongation of paint on sheet metal in accordance with ISO 1519.



Impact Test



SP1880

Determine the impact resistivity and flexibility of coatings.



Pycnometer



VF2097

Specific Gravity Cup for determining the specific gravity or density (or weight per gallon wpg) of coatings, pastes or similar liquids.



Pencil Hardness Test acc. Wolff Wilborn



VF2378

Provides in a simple method to test the scratch hardness of coatings. In this test, pencils in a range of 6B to 8H hardness-grade are used.



Pressure Density Cup



VF2095

Allows for a density or specific gravity measurement in a defined volume and pressure thus eliminating interference by air bubbles during the measurement.



Grindometer Tool



AB3075

Grindometer tool to be used as an optional test tool for the TQC Sheen Automatic Film Applicators.



Automatic Panel Sprayers



SH0586

Panel Sprayers remove the inconsistency of application experienced when using hand held spray guns, thus offering a means to set optimum and repeatable conditions to achieve consistent results.



Pendulum Hardness Tester



SP0500

A lot of unique features that ease defining hardness by the König and/or Persoz method as described in ISO 1522.



Mechanised Scratch Tester



SH0530

Dedicated to coatings hardness evaluation based on the scratching resistance method.

Automatic Film Applicator Standard



Produce consistent films for research into different coating or slurry formulations. Evaluate parameters such as opacity, spreading rate, color & hiding power. Apply coating films to test charts, panels or foils in a uniform and reproducible way. Eliminate variations caused by human factors.

Optional tools are available to measure fineness of grind, drying time & scratch resistance. Choose the heated model for any thermal applications and research.

★ Features

- ✓ Increased stroke length for larger type test charts
- ✓ More choices of vacuum areas for different chart sizes
- ✓ Store more personal settings with its larger memory capacity
- ✓ Heated model for thermal research applications

⚙️ Technical Specifications

Traverse Speed	0.1 – 500 mm/s
Stroke Length	50 – 430 mm / 1.97 – 16.34 in
Automatic Vacuum Area	DIN A5, DIN A4, DIN A3, Scrub Area
Controls	5-key Navigation Switch, Mouse and Keyboard Optional

📄 Standards

ASTM D823

📄 Ordering Information

Art. Nr.	Description
AB4120	AFA Standard (Glass Bed)
AB4220	AFA Standard (Perforated Vacuum Bed)
AB4320	AFA Standard (Double Channel Vacuum Bed)
AB4420	AFA Standard (Combined, without Bed)
AB4400	AFA Standard (Perforated Heated Vacuum Bed – 230VAC)
AB4405	AFA Standard (Perforated Heated Vacuum Bed – 115VAC)

Scope of supply

📦 Automatic Film Applicator Standard, 24V Adapter, Manual, Wire Bar Weight, Bed (depending on model)

Computer Controllable by LinQ

◀ Control the equipment by computer using your own software and LinQ as a communication tool.



Adjustable Tool Carrier

◀ Adjustable tool carrier for a variety of different applicator tools and test substrates.



Drying Time Tool

◀ Optional drying time tool to determine the different drying stages of coatings.



⊕ Accessories

Art. Nr.	Description
AB3090	Hardness Pen Tool
AB3500	Drying Time Recorder Option
AB3075	Grindometer Tool
AB4510	LinQ, PC Communication Tool



Scrub Abrasion and Washability Tester

The Scrub Abrasion and Washability Tester is used to test the resistance of paint, varnish or coatings to scratching, wearing, and color loss due to wet or dry abrasion, by simulating everyday wear from cleaning actions or general use. The test is either used as a "pass or fail" test by testing to a specified number of strokes or defining the minimum number of strokes at which a coating fails by checking at regular intervals.



★ Features

- ✓ Easy intuitive operating interface with Triple i Control (Intelligent Illumination Interface)
- ✓ Full color display
- ✓ Easy to update software

📄 Standards

ASTM D2486, ASTM D3450, ASTM D4213, ASTM D4828, ASTM F1319, ISO 11998

⚙️ Technical Specifications

Traverse Speed	1 - 60 cycles per minute
Stroke Length	20 - 300 mm / 0.39 - 11.81 in
Pump Flow Rate	0.0 - 3.0 ml per minute / 0.0 - 0.79 GPH
Max. Panel Length	Max. panel length: 350 mm / 13.78 in
Max. Panel Thickness	35 mm / 1.38 in
Max. Panel Width	70 mm / 2.76 in
Power	100 - 240VAC / 50 - 60Hz

📄 Ordering Information

Art. Nr.	Description
AB6000	Scrub Abrasion and Washability Tester
AB6010	Scrub Abrasion and Washability Tester - Basic

Scope of supply
 Scrub Abrasion and Washability Tester, 24V adapter + Power Cable, Manual, Tubing*, Fluid containers*.
 *Only supplied with AB6000

⊕ Accessories

Art. Nr.	Description
AB4510	LinQ, PC Communication Tool

Choose your parts with the Ordering Matrix and the Standards Configuration Table on www.tqcsheen.com



Fully Programmable

- ◀ Test length and speed are fully adjustable.



Save Time

- ◀ Able to perform four tests and use two different liquids at the same time.



Configurability

- ◀ Compatible with a large range of tools.

Drying Time Recorder



The Drying Time Recorder is a fully digitally controlled machine to define the different stages in the drying process of paints and coatings. The Drying Time Recorder operates conform the BK (Beck Koller) method. Defining the final result or checking intermediate stages is very easy by means of the clear digital display and the intuitive interface. The compact machine meets ASTM D5895, ISO 9117-4 and DIN EN 14022. The Drying Time Recorder has six tracks, and comes with two robust and reusable glass beds of 100 X 350 X 3 mm. Optional are six narrow glass beds in special adapters.

★ Features

- ✓ Digitally adjustable travel times from 1 min to 200 hours
- ✓ Heated display enhances menu visibility at lower temperatures
- ✓ Lubricant free drive system

📄 Standards

DIN EN 14022, ASTM D5895, ISO 9117-4

⚙️ Technical Specifications

Operating Temperature	-20°C to 70°C / -4°F to 158°F (non-condensing)
Drying Time Range	1 min – 200 hours
Max. Track Length	300 mm
Max. Number of Tracks	6
Time Accuracy	< 1% of set time
Diameter Needle	2 mm
Radius Needle	1 mm

📄 Ordering Information

Art. Nr.	Description
AB3600	TQC Drying Time Recorder 230 / 115 VAC

Scope of supply
 Drying Time Recorder, 2x Glass Tespanels 350x100x3mm, 6 needles, 6 weights of 5g, 1,5mm Hexagon wrench, Power Cord + Adapter

⊕ Accessories

Art. Nr.	Description
AB3602	Narrow glass beds, 305x25x3mm, set of 12 pcs

Multiple cube applicators are available. For more information visit <https://www.tqcsheen.com/en/product/cube-applicators/>



Intermediate and Final Results

Intermediate and final results can be checked on the display.



Six Tracks

The machine has six tracks, and comes with two robust and reusable glass beds.



Glass Front Panel

The hardened glass front panel is easy to clean and protects the display underneath it.

CureView



The CureView Gradient Oven is a flexible oven that allows the user to heat up test panels on a glass bed to a variety of temperature profiles, varying from ambient +5°C to 350°C / ambient +41°F to 662°F. Elevated temperatures are instantly generated by 32 spectral filtered IR halogen heaters, which can be controlled individually and allow the setting of any form of temperature gradient, varying from a parabolic shaped gradient, an ascending or descending slope or a number of temperature blocks. The CureView Gradient Oven allows importing of gradient profiles, measured by the CurveX oven logger system in order to simulate the production process on laboratory scale.

★ Features

- ✓ Computer controlled operation
- ✓ Real time logging of all runs
- ✓ Endless memory acces
- ✓ No preheating required
- ✓ Pre and post panel cooling

📄 Standards

ISO 2812-5

⚙️ Technical Specifications

Panel Clamp Speed	3 mm/s / 0.12 inch/s
Panel Carrier Speed	13 mm/s / 0.53 inch/s
Max. Panel Width	98 mm / 3.86 inch
Max. Panel Length	570 mm / 22.44 inch
Max. Panel Thickness	1,25 mm / 0.05 inch
Power	220 – 240VAC / 50 – 60Hz
Range	Ambient +5 °C tot 250 °C max. / Ambient +9 °F to 482 °F max.
Ramp	≈ 0.5°C/s (depending on sample and application)
Gradient	Max. 3°C/heater



Transparent Cover

- ◀ The test panel is visible during run due to protective glass/ceramic cover.



32 IR Heaters

- ◀ 32 individually controlled Quartz IR heaters.



Data Import

- ◀ Upload a genuine production cycle measured and logged with a CurveX oven-tracking system and duplicate it in the lab.

📄 Ordering Information

Art. Nr. Description

AB8000 CureView Gradient Oven



Scope of supply

CureView, Power Cord, Lamp Replacement Tool (AB8012), Allen Key 2,5 mm, Allen Key 3 mm, Allen Key 4 mm, 3 x Spare Lamps, Lamp Replacement Gloves, Pre-Installed Laptop, GOC and Ideal Finish Software, Manual.

⊕ Accessories

Art. Nr. Description

AB8025 Oven Test Panels, Set of 50 pcs.

AB8026 Panel Adapter for Panels Size 500 mm x 100 mm



Digital Krebs Viscometer (480)



Based on the popular traditional KREBS method, using a weight-driven rotating paddle to sense the paint viscosity at a constant 200 rpm, this modern Digital Krebs Viscometer (480) provides automated motor operation, without weights & pulley, allowing accurate direct reading in KU (Krebs units), mPa.s (cP) or g (gram). The conversion between these units is automatically calculated by the microprocessor and displayed on request. Sturdy construction allows for use either in a production environment or in the laboratory.

★ Features

- ✓ Single or continuous reading in KU, mPa.s (cP), gram
- ✓ Over-range indication
- ✓ Possibility of multi-point calibration by user with optional key

Ⓢ Standards

ASTM D1131, ASTM D562, ASTM D856

⚙️ Technical Specifications

Range	37 - 141 Krebs units, 200 - 5000 Cp, 70 - 1100 gms
Resolution	0.1 Kreb unit, 10 cP, 1 gm
Accuracy	±2% of full scale
Repeatability	±1% of full scale
Operating temperature	15°C – 35°C (59°F – 95°F)
Motor speed	200 rpm. ±1%
Sample container	500mL (standard)
Power consumption	30 watts (max)
Electrical supply	200/250V - 100/120VAC (switchable)



Interchangeable Cones

- ◀ Simple to install with quick release chuck for easy cleaning.



Can Centering

- ◀ Place the can in the right spot due to the can centering base plate.



Safety Height Sensor

- ◀ Preventing the rotor from rotating above the can.

📄 Ordering Information

Art. Nr.	Description
SH1349	Digital Krebs Viscometer with RS 232 cable and rotor

Scope of supply
Digital Krebs Viscometer, Power Cable, Manual

Calibration Certificate Included

⊕ Accessories

Art. Nr.	Description
SH7120	Calibration key (required for instrument calibration)



Cone and Plate

The Cone Plate Viscometer is a versatile and robust viscosity meter to the Cone / Plate principle. The microprocessor controlled plate temperature allows for accurate temperature controlled measurement. The precision Titanium nitrate cone and plate allow accurate control of the Shear force to 10.000S^{-1} or to 12.000S^{-1} .

★ Features

- ✓ Pre-selected or adjustable runtimes 5–59 seconds, with manual or automatic start
- ✓ Adjustable pre-heating time 0–59 seconds
- ✓ Adjustable limit/tolerances setting with warning

📄 Standards

ASTM D4287, ISO 2884, BS 3900-A7

⚙️ Technical Specifications

Dual Speed	750rpm = $10,000\text{ s}^{-1}$ 900 rpm = $12,000\text{ s}^{-1}$
Viscosity 5 Cone/ Measuring Ranges	0-5, 0-10, 0-20, 5-50, 10-100 P
Resolution	0.001 P / 0.1°C
Accuracy	<+/- 2%
Repeatability	<+/- 0.5%
Temperature Control	Built in 5° to 65°C
Electrical Supply	90-240V 50/60 Hz

📄 Ordering Information

Art. Nr.	Description
SH1693	Cone and Plate Viscometer

Scope of supply
Cone and Plate, Power Cable, PC Cable, Manual

Calibration Certificate Included

⊕ Accessories

Art. Nr.	Description
SH1432	Cone 0-10 poise + 5 certified oils
SH1428	Cone 0-20 poise + 5 certified oils
SH1427	Cone 5-50 poise + 5 certified oils
SH1434	Cone 10-100 poise + 5 certified oils
SH1429	Cone 0-5 poise + 5 certified oils



Interchangeable Cones

- ◀ Simple to install with quick release chuck for easy cleaning.



Change Reading Unit

- ◀ Reading in P, cP, Pa.s or mPas.s



Selectable Modes

- ◀ Fully functional or simplified routine, security protected.



Comprehensive Abrasion Test



The Comprehensive Abrasion Test, in short CAT, mimics road transports of beverage cans. Beverage cans suffer from scuff and friction during transport, damaging its coating or even causing leaks in cans. The reciprocating motion mimics in-the-field transportation abrasion damage of coatings. This is an improvement over the older Gavarti Associates "GV-CAT" system. The instrument simulates a truck transport of cans. Setting different speeds and stroke lengths allows you to mimic any type of road surface.

★ Features

- ✓ Simulates truck transports of cans and flat objects.
- ✓ Set different speeds and stroke lengths to mimic any type of road surface.
- ✓ Suitable for testing printed cartons and book covers.

📄 Standards

Equivalent to GV-CAT



‘GV-CAT’ System

- ◀ Equivalent to the Gavarti Associates System.



Can Inserts

- ◀ Function as filler.



Computer Controlled

- ◀ Supplied with laptop* and CAT software.

⚙️ Technical Specifications

Can Size	150 – 1000 ml / 5.07 – 33.8 fl. oz. (US) / 5.28 – 35.2 fl. oz. (UK)
Min. Can Diameter	53 mm / 2.1 inch
Max. Can Diameter	84 mm / 3.3 inch
Min. Can Height	88 mm / 3.5 inch
Max. Can Height	205 mm / 8.1 inch

📄 Ordering Information

Art. Nr.	Description
TB5000	Comprehensive Abrasion Test 230 VAC
TB5005	Comprehensive Abrasion Test 115 VAC



Scope of supply

Comprehensive Abrasion Test, Power Cord, Manual, Laptop* with Windows 10, Control Application, USB Cable, Three Sets of Side Plate Assembly, Top Pressure Plate Assembly, Bottom Can Carrier Plate, Air Tube, Hexagonal Wrench, Can Positioning Bar

* Optional

⊕ Accessories

Art. Nr.	Description
TB5270	Can Inserts Set of 6
AB5500	Set of Flat Blocks to test Flat Sheet Material



Automatic Cupping Tester



The Automatic Cupping Tester to perform a cupping (Erichsen / Dent) test on coated steel panels to define the resistance of paint, varnish or related products to cracking and/or detachment from a metal substrate when subjected to gradual deformation by indentation under standard conditions.

★ Features

- ✓ Easy-to-use
- ✓ Triple I operating interface
- ✓ User calibration
- ✓ Integrated multi-colour led lighting
- ✓ Pause/ Resume function
- ✓ Connectivity
- ✓ Full colour display
- ✓ Safe 24V DC Power adapter

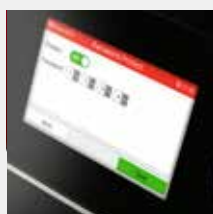
📄 Standards

DIN-EN 13523-6, EN-ISO 1520, DIN 53156, DIN 53232, BS 3900-E4, NBN T22-104, NFT 30 019



Statistic

Easy to see.



Protection

With password.

⚙️ Technical Specifications

Indenter Speed	0.01 – 0.70 mm/s
Stroke length	0 - 12 mm
Max panel width	105 mm
Max. panel thickness steel	0.8 mm
Max. speed steel panel	0.6 mm/s
Max. panel thickness aluminium	1.2 mm
Max. speed aluminium panel	0.7 mm/s
Max. indentation Force	35kN (3500 kg)
Depth x Width x Height	390 x 355 x 450 mm
Net weight	approx. 29 kg

📄 Ordering Information

Art. Nr.	Description
SP4500	Automatic Cupping Tester

Scope of supply
Automatic Cupping Tester, Reference Panel, Optical tool support rod, Optical tool mount, Power cord + adapter, Manual, Calibration certificate

⊕ Accessories

Art. Nr.	Description
LD6182	USB Digital microscope
SP4375	Foil clamp
SP4331	Calibration plate



Industrial Finishing

For quality control of powder coatings and surface finishing applications.



Cross Cut Adhesion Test



SP1700

Test the adhesion of dry coats of paint on their substrate by means of a series of cuts through the coating.



Cross Cut Adhesion Test KIT



SP3000

A stainless steel measuring tool that features a 1 mm, 1.5 mm, 2 mm and 3 mm cross cut adhesion test according NEN-EN-ISO 2409:2003 and ASTM D 3359 (X-cut) Andreas cross.



CurveX 3 Standard Logger



CX3015

Offers easy-to-use, high quality temperature data logging for paint curing ovens.



CurveX 3 Basic Oven Logger



CX3005

An oven recorder designed for everyday use in powder coating lines.



Rotathinner™



DV2000

Offers a two in one instrument for material testing. It offers easy continuous monitoring of the material viscosity during the addition of solvents and thinners to create supply or RFU viscosity.



Rotational Viscometer



DV1401

Portable rotary viscometer acc. to Brookfield Method suitable for production process and for laboratories and research centres any time when quick and reliable determination of viscosity are required.



Dust Test Kit



SP3200

Allows assessment of the quantity and size of dust particles on surfaces prepared for painting according to ISO 8502-3.



RAL K7



VF6606

Colour fan deck containing all 213 RAL CLASSIC colours.



Conveyor Ground tester



LD5900

Informs you whether items to be painted are sufficiently grounded.



Positector 6000

The Coating Thickness Gauge Positector 6000 from Defelsko is a rugged, fully electronic coating thickness gauge that uses magnetic and eddy current principles to measure, accurately and quickly, coating thickness on both ferrous and non-ferrous metals.

The positector 6000 is used in various branches of industry.

★ Features

- ✓ No calibration adjustment required for most applications
- ✓ Hi/Lo alarm audibly and visibly alerts when measurements exceed user-specified limits
- ✓ Calibration stored in sensor module

📄 Standards

ISO 2808, GOCT P 51694

⚙️ Technical Specifications Advanced


Display	Hi contrast reversible color display
Memory	100.000 reading
Data Transfer	USB, Wifi, Bluetooth

⚙️ Technical Specifications Standard

Display	Monochrome display
Memory	250 readings
Data Transfer	USB

📄 Ordering Information

Art. Nr.	Description
LD6058	Positector 6000 – Advanced Model (without probe)
LD6057	Positector 6000 – Standard Model (without probe)

 **Scope of supply**
Protective Rubber Body, Wrist Strap, Quick Guide, Nylon Carrying Case, USB Cable.

 **Calibration Certificate Included**

⊕ Accessories

Art. Nr.	Description
LD6099	FS Probe, Ferrous std.
LD6109	FNS Probe, Ferrous/Non-Ferrous std.

Multiple probes are available. Visit our website for more information.



◀ Durable

Solvent, acid, oil, water and dust resistant.



◀ Fast Mode

Faster measurement speed for quick inspection. Up to 60+ reading per minute.



◀ Probe Interchangeability

Easily transforms from a Coating Thickness Gauge to a Surface Profile Gage, Ultrasonic Wall Thickness Gauge or Replica Tape Reader.



Low Voltage Pinhole Detector

The Low Voltage Pinhole detector enables the user to inspect coatings on conductive substrates for small defects such as holidays and pinholes using the 'wet sponge technique'.

The grounding clamp is connected to an untreated piece of the substrate (which is electrically connected with the measurement area), where the wet sponge will be used to probe the entirety of the coating with the selected voltage applied. When current flows from the sponge wand to the grounding clamp, this indicates a defect in the coating. The user will be notified using the selected feedback method(s). (Buzzer, vibration, headphones and/or display).

★ Features

- ✓ Smart power saving features (screen dimming, standby, auto power-off)
- ✓ Return cable connectivity detection
- ✓ Detected pinhole counter
- ✓ Automated self-diagnostics

📄 Standards

ISO 8289-A, ISO 14654:1999, BS 7793-2:1996, ASTM D 5162-A, JIS K 6766:2008, TM0384-2002

⚙️ Technical Specifications

Voltage LD8100	9, 90 V
Voltage LD8105	9, 24, 67.5, 90 V
Measuring Range	max 500µm coating thickness
Voltage Accuracy	+/- 5%
Sensitivity	100kΩ for all voltages
Feedback	Visual, Audio*, Haptic (* with optional headphones)
Security	Return Cable connection detection

📄 Ordering Information

Art. Nr.	Description
LD8100	Low voltage detector basic, 9V / 90V
LD8105	Low Voltage detector Advanced, 9V, 24V, 67.5V, 90V

- Scope of supply**
Low Voltage Detector, Sponge Wand, Grounding Cable with Clamp, Calibration Certificate, Manual.
- Calibration Certificate Included**

⊕ Accessories

Art. Nr.	Description
LD8155	Expansion Kit for the Low Voltage Pinhole Detector



Color Display

◀ ...with battery indicator and menu based user interface.



Easy Control

◀ Intuitive single button control



Feedback

◀ Visual, audible and tactile feedback



Glossmeter



The TQC Sheen Glossmeter comes in two models. The Sologloss glossmeter measures 60° and the Polygloss glossmeter 20°/60°/85°. The 60° measuring angle can be used for any surface, from matte to glossy. For better gloss measurements on high gloss surfaces the 20° angle is available, while for low gloss surfaces the 85° angle suits best.

Ideal Finish Analysis Software is included to analyze the gloss measurement results. This software provides the user the power to do all analysis of interest. Trend, Gaus and many other statistical evaluations are possible.

★ Features

- ✓ Memory for 2000 gloss readings (max 8 batches)
- ✓ Adjustable gloss limits with visual and acoustic alarm
- ✓ LCD colourdisplay with wide viewing angle
- ✓ Menu-driven interface
- ✓ Stable LED-light source
- ✓ USB-C port for quick data transfer to PC
- ✓ Calibration gloss standard integrated in protective holder

📄 Standards

ISO 2813; ASTM D523; ASTM D2457; ASTM C584; AS 1580 (602.2); BS 3900 D5; DIN 67530; JIS Z 8741; ISO 7668; MFT 30064 (exception 45° angle)

⚙️ Technical Specifications

Range	20° 0 - 2000 GU 60° 0- 1000 GU 85° 0 – 160 GU
Resolution	0,1 GU (0-100GU) 1GU (>100GU)
Angle	SoloGloss 60° PolyGloss 20°, 60°, 85°
Display	320 x 240 pixels, full color
Protection	Password
Dimensions (HxWxD)	90 x 140 x 45 mm / 3,54 x 5,511 x 1,7"

📄 Ordering Information

Art. Nr. Description

GL0010 Sologloss 60°

GL0030 Polygloss 20°, 60° & 85°

📦 Scope of supply

Glossmeter, 2x AA type batteries, Plastic case, Screwdriver
USB stick with Ideal Finish Analysis software, Microfiber
cleaning towel, USB cable, Calibration certificate



Calibration Certificate Included

⊕ Accessories

Art. Nr. Description

GL0040 Calibration tile TQC Sheen Glossmeter



Memory & Batch

- ◀ Statistics for easy averaging and such.



Protected Menu's and Functions

- ◀ Protect selected functions to prevent unauthorised adjustments.



Primary Standards

- ◀ Calibrated on primary tiles.



PowderTAG

PowderTAG measures powder coating thickness before and after cure, non-contact and non-destructive.

A sophisticated combination of ultraviolet and infrared techniques measures the thickness of powder coatings in precured and cured status, precise and reproducible.

★ Features

- ✓ Measures on any metal substrate such as steel and aluminium
- ✓ Large measuring range, up to 300 µm
- ✓ Save on rework and reject
- ✓ Perfect for corners that are difficult to approach

📄 Standards

DIN-EN 15042-2

⚙️ Technical Specifications

Measuring Range	50 - 300 µm
Accuracy	+/- 3%
Resolution	+/- 1%
Measuring Distance	≈ 35 mm / 1.38 inch
Measuring Spot	ø 1 mm / ø 0,04 inch
Measuring Speed	64 - 1024 ms
Main Unit Mass	700 g / 24.7 oz
Battery lifetime	10 hours of continuous use

📄 Ordering Information

Art. Nr.	Description
LD5860	PowderTAG Thickness Analysing Gauge

📦 **Scope of supply**
 Sensor with Cable, Display Unit, 8x Li-Ion Batteries Type 14500, Quad Charger, Rubber Harness, Verification Tool, Manual

⊕ Accessories

Art. Nr.	Description
LD5852	Distance-cap
LD5851	Height adjustable stand pro
LD5853	Height adjustable stand basic



Easy Operation

Just point the probe at the surface at the right distance (LED-Pointers will indicate the correct distance / location) and press the "measure" button.



Versatile

Measures any form, shape and dimension. Including wire frames or edges.



Cured and Uncured

Suitable for uncured and cured powder coatings.



Protective Coatings

For quality control and warranty during sandblasting and painting processes.



PosiTest Adhesion Tester



LD9330

Measures adhesion of coatings applied on metal, wood, concrete and similar substrates. There is a manual and an automatic model available.



Sling Psychrometer



TM0081

Bacharach type sling Psychrometer for indicating percent relative humidity on the basis of the wet bulb-dry bulb thermometer principle.



Ultrasonic Thickness Gauge "Pro"



LD7016

Specifically designed to measure the thickness of metallic and non-metallic materials e.g. aluminium, titanium, plastics, ceramics, glass and plastics.



Surface Roughness Comparator



LD2040 - LD2050

Comparators for determining surface roughness by touch and sight. Conforms to ASTM D4417.



ISO 8501-1:2007



LD3020

Corrosion protection of steel structures by painting. Contains high-quality colour photographs for estimating the rust levels and purity levels after cleaning manually or by machine (also with blasting).



Wet Film Thickness Gauge WG



SP4000

A hexagonal/octagonal precision measuring comb. The high-grade stainless steel will not be affected by acid or base elements. Models available for several different applications.



Hardness Test Standard



SP0010

A pocket instrument for testing the hardness and wear/scratch resistance of materials such as coatings, lacquers, plastics or related products.



Inspector Flashlight



DI0080

A robust and handy flashlight with extremely powerful Power LED. The adjustable light beam makes this flashlight very suitable for most kinds of inspections.



Pretreatment Test Kit "Full"



SP7316

The TQC Sheen Pretreatment Test Kit is especially composed to control all relevant parameters during the pretreatment of steel prior to painting.



Bresle Kit



The Bresle Kit – Sodium Chloride Test Kit complies with the ISO 8502-6 and ISO 8502-9 standards that describe the Bresle Method to assess the level of soluble salts using a Bresle patch or Bresle sampler, distilled water and a conductivity gauge. The conductivity is mainly directly proportional to the concentration of dissolved chloride ions in the solution. The kit includes all the necessary equipment to execute a bresle test that will indicate the contamination of soluble salts on blast-cleaned surfaces prior to coating. Inside the Bresle Kit – Sodium Chloride Test Kit is a conductivity gauge used for the assessment of soluble salt ions as chlorides, sulphates and nitrates.

★ Features

- ✓ ISO 8502-6 and ISO 8502-9 conform
- ✓ Certificate included with Patches
- ✓ Residue free patches

📄 Standards

ISO 11127-6, ISO 11127-7, ISO 1769, ISO 2574, ISO 32, ISO 8502-6, ISO 8502-9

⚙️ Technical Specifications

Range	0.1 – 20 000 mg/m ² soluble salt measured as Sodium Chloride
Resolution	0.1 μS/cm = 0.1 mg/m ²
Gauge Accuracy	1%
Temperature range	0 – 50 °C
Patch type	A-1250'

📄 Ordering Information

Art. Nr.	Description
SP7310	Bresle Kit - Sodium Chloride Test

Scope of supply
Case, Digital Conductivity Gauge, 25 Bresle Patches, Distilled water, Calibration and Cleansing Solution, Cup, Syringe, Manual

Calibrate Certificate Included

⊕ Accessories

Art. Nr.	Description
LD6515	Bresle Patches, 25 pieces + needle
SP7320	Calibration Solution 84 μS, bottle of 50ml
SP7321	Maintenance Cleaning Solution, bottle of 50ml



➤ Easily Removable Patch

A special tab eases the removal of the patch. The adhesive is silicon-free and leaves no residue. No power tooling required to clean test area afterwards.



➤ Direct Results

No conversion factor required.



➤ Auto-hold Reading

Measurement results can be viewed at a later stage.



Hull Roughness Gauge

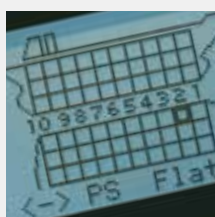
Controlling the roughness of a ship's hull plays an important role in the operating costs of a vessel. The roughness of a ship's hull increases mainly due to corrosion, pitting, plate undulation, mechanical damage, dry spray and above all bio fouling. Proper maintenance and the correct application of high-end anti-fouling coatings reduce the hydrodynamic effects and will lead to significant savings on fuel consumption and CO² emissions. The hull roughness is measured during in-docking and out-docking. The Hull Roughness Gauge measures the AHR value (Average Hull Roughness) of sea going vessels. AHR is the 'mean' of all the vessel's hull roughness readings and is the measure against which ship's performance is correlated.

★ Features

- ✓ Can be operated with just one hand due to the 4-way directional push button
- ✓ AA Battery operated
- ✓ Fits into a small sized waterproof rugged casing that is allowed as carry on travel luggage and benefits your overseas travel plans.
- ✓ Supplied with a neck strap to keep the users' hands free when required.
- ✓ A set of LED's indicate the status of the instrument so operation is possible without observing the control unit.

⚙️ Technical Specifications

Accuracy:	+/- 5µm / <2%
Speed:	50 mm/s , with speed indication led in sensor unit
Memory:	Enough for 4 complete surveys, (Totally over 10.000 readings)
Interface:	USB serial to PC interface
Power:	4xAA
Battery lifetime:	20 hours with Backlight ON, 200 hours with backlight OFF



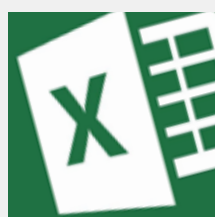
Graphical Representations

- ◀ Simply point and click the hull location in the displayed graphical representation of the ship's hull.



Speed Indicator

- ◀ A measurement must be performed at the correct speed. The speed indicator LED monitors the speed and prevents too fast measurements being made.



Survey Reports

- ◀ Using the supplied USB-cable and software you instantly create inspection reports in Microsoft Excel. Your company logo and or -details can be incorporated to restyle your reports.

i Ordering Information

Art. Nr.	Description
DC9000	Hull Roughness Gauge

- 📦 **Scope of supply**
Hull Roughness Control Unit with Neck Strap, Sensor, Sensor Cable, Calibration Plate (DC9015), USB Thumb Drive with Software, USB Connection Cable to PC, 4x AA Batteries.

- 🏆 **Calibration Certificate Included**

+ Accessories

Art. Nr.	Description
DC9025	Protective Pouch
DC9015	Calibration plate



Paint Inspection Gauge

The SuperPIG is a destructive precision tool for inspection and thickness measurement on single or multiple coats on virtually all substrates, including wood, plastics, metals etc. Also observes and measures substrate and film defects. Applies a small incision in the layer of paint, and uses an integrated microscope reticle. The SP1100 is a very stable instrument, also the integrated microscope has an excellent focus. The microscope is provided with a double scale (mm and inch) which allows you to calculate to micrometers and mils. Reduce of ambient light because of a rubber end cap on the microscope so when observing through the microscope you will have a better focus upon the specimen.

★ Features

- ✓ Made of Titanium anodised aluminum
- ✓ Three knife sizes and one crosscut knife in one holder
- ✓ The small size eases use in corners

📄 Standards

DIN 50986, ISO 2808

⚙️ Technical Specifications

Range	2 to 1800 μm / 0,1 to 70 mils
Microscope	Magnification 50x (with graduation scale)
Scale range	0,00 – 1,8 mm / 0,00 – 0,07 inch (rectilinear measured)
Range Cutter 1	20-1800 μm / 1-70 mil
Range Cutter 2	10-900 μm / 0.5-35 mil
Range Cutter 4	2-180 μm / 0.1-7 mil

📄 Ordering Information

Art. Nr.	Description
SP1100	Super PIG Paint Inspection Gauge III

📦 Scope of supply
Super Pig III Destructive Paint Inspection Gauge, Black Marker, Cutter 1 (SP1111), Cutter 2(SP1112), Cutter 4 (SP1114), Hex Diagonal Wrench, Black Leather Case with Belt Clip.

⊕ Accessories

Art. Nr.	Description
SP1113	Cutter No. 3, 5-450 μm / 0.25-17.5 mils
SP1702	1 mm Cutter, acc. to ISO 2409 & ASTM D3359
SP1703	2 mm Cutter, acc. to ISO 2409 & ASTM D3359
SP1704	3 mm Cutter, acc. to ISO 2409



Clear Vision

- ◀ Bright white LED lights ensure clear vision through the microscope.



🔄 Ergonomic Design

- ◀ Revolving-system to change knives.



📐 Easy Calculations

- ◀ Engraved scaling (D-factor) for easy calculations.



DewCheck

The TQC DewCheck 4 – Dewpoint Meter (DPM)/ Dewmeter is an extremely versatile dewpoint meter to measure and record all climate parameters required to treat surfaces. This easy to use and robust dewmeter conforms to ISO 8502-4 & ASTM D3276-07 and measures the relative humidity (%RH), ambient temperature (Ta) and surface temperature (Ts) and calculates the dewpoint temperature (Td) and the difference between the dewpoint temperature and the surface temperature (ΔT). The difference between the surface temperature and dewpoint temperature indicates the optimal climate conditions for painting.

★ Features

- ✓ All build-in probes
- ✓ Wrist strap prevents dropping the Dew Check 4
- ✓ Double contact push buttons for secure navigation through DewCheck 4 menu

📄 Standards

ISO 8502-4, ASTM D3276-05, BS 7079-B4, NACE RP prop 97

⚙️ Technical Specifications

Humidity

Accuracy	± 3 % RH
Measurement Resolution	0.1 %
Measurement Range	0...100 % RH

Temperature Ta (Air)

Accuracy	± 0.5 °C, ± 1 °F
Measurement Resolution	0.1 °C, 0.1 °F
Measurement Range	- 20...+ 80 °C, - 4...+ 176 °F

Temperature Ts (Surface)

Accuracy	± 0.5 °C, ± 1 °F
Measurement Resolution	0.1 °C, 0.1 °F
Measurement Range	- 30...+ 60 °C, - 22...+ 140 °F

Batches	8 Batches max.
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Operating Temperature Range	20 °C...60 °C, - 4...+ 140 °F
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📄 Ordering Information

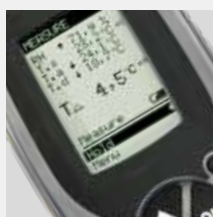
Art. Nr.	Description
DC7100	Dewcheck 4 Dewpoint Gauge – Series 2

Scope of supply
Dewcheck 4, Leather Pouch, Wrist Strap, USB Cable

Calibration Certificate Included

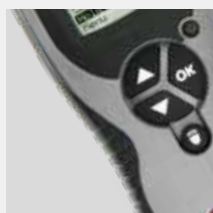
⊕ Accessories

Art. Nr.	Description
DC7520	Docking Station for DewCheck Series 2
DC7510	USB Communication Cable
DC7010	Spare Leather Pouch



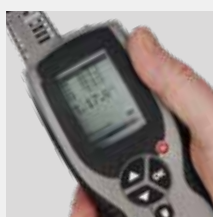
Display

Large illuminated graphic display.



Rugged Gauge

Designed for use in harsh industrial environments. Rubber injected case for protection and firm grip.



One-hand Operation

The one hand operation of DewCheck4, keeps one hand free for the operator.



Corrosion Testing

For corrosion testing of testpanels and samples.

Salt Spray Cabinets



Salt Spray Cabinets to test both components and coated test panels across the whole spectrum of industry. Effective corrosion testing requires close operational control and total accuracy. In C&W's salt spray cabinets these criteria are assured by many features. The test cabinets are reliable, easy to operate and have a robust construction.

★ Features

- ✓ Precise fallout throughout the chamber
- ✓ Precise collection rates and elimination of blockage
- ✓ Corrosion resistant construction throughout

🔗 Standards

ASTM B117, ASTM B368, ASTM D5894, BS 3900-F12, BS 3900-F18, BS 3900-F4, BS 3900-Part2:1 ka, BS 5466, BS7479, CT UOI OIA, DIN 50021, EN 60068.2-52 kb, ISO 11997, ISO 20340, ISO 3768, ISO 7253, ISO 9227, JASCO M 6009, JIS H 8502, JIS Z 2371, NFA 91-101, NFX 41-002, PNX 14-002, SAE J2334, VG 95210/2, VG 95332/4

⚙️ Technical Specifications

Dimensions 100 litre (LxWxH)	1020 mm x 730 mm x 780 mm / 40.1 inch x 28.7 inch x 30.7 inch
Dimensions 200 litre (LxWxH)	1000 mm x 830 mm x 1040 mm / 39.3 inch x 32.6 inch x 40.9 inch
Dimensions 450 litre (LxWxH)	1330 mm x 1020 mm x 1120 mm / 52.3 inch x 40.1 inch x 44.0 inch
Dimensions 750 litre (LxWxH)	1730 mm x 1290 mm x 1370 mm / 68.1 inch x 50.7 inch x 53.9 inch
Dimensions 1000 litre (LxWxH)	1950 mm x 1350 mm x 1380 mm / 76.7 inch x 53.1 inch x 54.3 inch
Dimensions 2000 litre (LxWxH)	2760 mm x 1360 mm x 1650 mm / 108.6 inch x 53.5 inch x 64.9 inch
Power Supply	230 V 50/60 Hz single phase, other voltages on request

📄 Ordering Information

C&W corrosion cabinets come in a wide range of types, including conventional salt spray cabinets, cyclic prohesion cabinets, CASS cabinets, combination salt spray/humidity cabinets and combination salt spray/ prohesion-humidity cabinets.

Visit www.cw-spec.com for ordering information, or contact your local representative.

Your C&W direct contact nr: +44 (0) 2039 3635 65.

📦 Scope of supply

Salt Spray cabinet, installation kit, annual kit, set of collection vessels (2 funnel, 2 cylinder), 5kg salt + certificate, adapter for pipe, corrosion handbook. (The salt solution reservoir on the upper picture is optional - CW4017).



◀ **Flowmeter**



◀ **Vesselcollection set**



CCT Cyclic Corrosion Test Cabinets



The robustness and reliability of this Cyclic Corrosion Test Cabinets go hand in hand with a full range of environmental test conditions, optimum operation and precise control. The CCT cabinet provides a full range of environmental test conditions including conventional salt spray/ salt fog, dwell and ramp functions, high humidity (98% RH) at constant or cyclic temperature, air purge cycles and forced air drying

★ Features

- ✓ Automatic self filling humidifier system
- ✓ Internal humidification system
- ✓ Air purge
- ✓ Appr. 10 days continuous operation

📄 Standards

ASTM B117, BS 3900-F12, CCT I, II, IV, DIN 50021, Ford EU B 153-2, GM 9540 P, ISO 7253, JIS K 5622-7, Nissan M0007, Smaat & Mastmaasis Honda 5100Z, Toyota TSH 1555G, Unichem 692 & 741, VDA 624-415, VW-1210-C

⚙️ Technical Specifications

Dimensions 100 litre (LxWxH)	1020 mm x 730 mm x 780 mm / 40.1 inch x 28.7 inch x 30.7 inch
Dimensions 200 litre (LxWxH)	1000 mm x 830 mm x 1040 mm / 39.3 inch x 32.6 inch x 40.9 inch
Dimensions 450 litre (LxWxH)	1330 mm x 1020 mm x 1120 mm / 52.3 inch x 40.1 inch x 44.0 inch
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Dimensions 2000 litre (LxWxH)	2760 mm x 1360 mm x 1650 mm / 108.6 inch x 53.5 inch x 64.9 inch
Power Supply	230 V 50/60 Hz single phase, other voltages on request



◀ Air purge



◀ Spray nozzle

📄 Ordering Information

Visit www.cw-spec.com for ordering information, or contact your local representative.

Your C&W direct contact nr: +44 (0) 2039 3635 65.



Scope of supply

Humidity Conditioning cabinet, installation kit, set of collection vessels (2 funnel, 2 cylinder), adapter for pipe, corrosion handbook



Calibration Certificate included



Humidity Cabinets



Humidity Cabinets are designed to reproduce test conditions of high humidity at constant or cycling temperatures. The test chamber environment is created by water being heated to precise temperatures to generate water vapour. The water vapour saturates the air in the test area which is constantly being circulated by the internal fan to ensure even distribution. The test panels or components are exposed to the moisture enriched air, allowing the water to be absorbed by the coating. This test is used to reproduce the exposure to naturally occurring condensation or by cycling the temperature, in the cabinet dew formation can be produced.

★ Features

- ✓ Air movement either fan assisted or by convection
- ✓ Keypad control panel
- ✓ Fully automatic liquid level control

📄 Standards

ASTM D2247, ASTM D4585, BS 3900-F15, BS 3900-F2, BS 3900-F9,
DIN 50517, EN 1096, INS 30.16.08, ISO 11503, ISO 6270

⚙️ Technical Specifications

Dimensions 100 litre (LxWxH)	1020 mm x 730 mm x 780 mm / 40.1 inch x 28.7 inch x 30.7 inch
Dimensions 200 litre (LxWxH)	1000 mm x 830 mm x 1040 mm / 39.3 inch x 32.6 inch x 40.9 inch
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Dimensions 2000 litre (LxWxH)	2760 mm x 1360 mm x 1650 mm / 108.6 inch x 53.5 inch x 64.9 inch
Power Supply	230 V 50/60 Hz single phase, other voltages on request



◀ Display



◀ Gas spring roof



◀ Manual open system

📄 Ordering Information

Visit www.cw-spec.com for ordering information, or contact your local representative.

Your C&W direct contact nr: +44 (0) 2039 3635 65.



Scope of supply

Humidity cabinet, installation kit, set of collection vessels (2 funnel, 2 cylinder), adapter for pipe, corrosion handbook



Calibration Certificate Included



Humidity Conditioning Cabinets



This units function as variable humidity, temperature humidity, environmental, climatic or conditioning cabinets. Their reliability, ease of operation and robust construction has led to their use worldwide in all major sectors of industry. Temperature and humidity testing and product conditioning is of vital importance to ensure the product is researched, developed and manufactured to a standard guaranteed to survive the environment for which it is designed.

★ Features

- ✓ Step-up-step-down programming facility
- ✓ Full digital display
- ✓ Keypad control panel
- ✓ Humidity generator/condenser unit supplied

📄 Standards

ASTM B1117, BS 3900-F12, DIN 50021, Ford EU B 153-2, GM 9540 P, ISO 7253, JIS K 5622-7, Nissan M0007, Smaat & Mastmaasis Honda 5100Z, Toyota TSH 1555G, Unichem 692 & 741, VDA 624-415, VW-1210-C

⚙️ Technical Specifications

Dimensions 100 litre (LxWxH) 1020 mm x 730 mm x 780 mm / 40.1 inch x 28.7 inch x 30.7 inch

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Dimensions 2000 litre (LxWxH) 2760 mm x 1360 mm x 1650 mm / 108.6 inch x 53.5 inch x 64.9 inch

Power Supply 230 V 50/60 Hz single phase, other voltages on request



◀ Ventilatoren



◀ Wheels makes it easy to move

📄 Ordering Information

Visit www.cw-spec.com for ordering information, or contact your local representative.

Your C&W direct contact nr: +44 (0) 2039 3635 65.



Scope of supply

Humidity Conditioning cabinet, installation kit, set of collection vessels (2 funnel, 2 cylinder), adapter for pipe, corrosion handbook

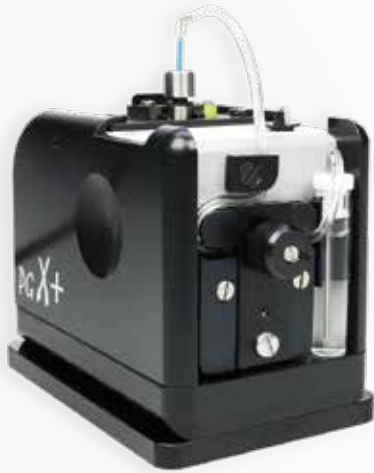


Calibration Certificate Included



Surface Tension

For surface calibration and cleaning assessment.



Pocket Goniometer PGX+



Pocket Goniometer PGX+ defines several surface properties for quality control. The instrument measures the dynamic and static contact angle of a standard liquid on paper and board, solar cell panels, windshields, metal cylinders, and similar surfaces. PGX+ uses a camera which can take up to 80 pictures per second. This way, both the static and the dynamic contact angle of the droplet can be measured. The Pocket Goniometer may also be used to measure surface tension and surface free energy (SFE). During a test, the apparatus is connected to the computer.

★ Features

- ✓ Hassle-free, no sample preparation
- ✓ Many measurement options
- ✓ Multiple test fluids possible

📄 Standards

ASTM D5946, ASTM D724, TAPPI T458

⚙️ Technical Specifications

Camera

Image Capture Rate	80 frames/second
Field of View	7,0 x 5,2 mm
Sensor Resolution	640 x 480 pixels
Pixel resolution	11 µm

Droplet application

Droplet volume	0,1 – 10 µl
Modes	Touch Down / Impact / Manual

📄 Ordering Information

Art. Nr.	Description
PG1000	Pocket Goniometer PGX+



Scope of supply

PGX+ instrument, PGX+ software, one millilitre syringe, calibration plate, glass bottle, PGX+ Accessory kit with syringe tip, pump tubing and applicator tubing, carrying case

⊕ Accessories

Art. Nr.	Description
PG1010	Dosing Unit
PG1027	2x Pump tubing (silicone) for most Diiodomethane
PG1021	5x Pump tubing (PTFE) suitable for most liquids
PG1025	5x Applicator tubing between syringe and dispenser
PG1171	Steel cannulus tip 0.5 mm (min order 10 pcs)
PG1023	Liquid container kit (with / without plug), 5+5 pcs



Portable instrument

- ◀ Portable and therefore easy to use, even in the field.



Test results

- ◀ 80 frames per second gives you a great opportunity to physically see how the drop shapes.



Dosing Unit

- ◀ The optional dosing unit enables you to use fluids with higher viscosity.



Dynamic Absorption Tester



The DAT measures the contact angle (dynamic and static), surface tension, penetration, surface energy and spreading. The instrument uses a sophisticated camera to capture the fall/ shape of the drop, the shape on the sample and eventually the penetration. The pump and the camera work closely together. This is critical to have the correct amount of liquid and have each test start at the same time.

Features

- ✓ Fully automatic, integrated system
- ✓ Exchangeable automatic feed systems
- ✓ Captures 50 to 1,000 images per second
- ✓ Optional Tilt Table
- ✓ High precision pump accurate within 0.1 μL
- ✓ Precision pulse system for gentle drop application
- ✓ Drop application synchronised within 1 msec
- ✓ Calibration with ISO certificate

Standards

ASTM D-5725, TAPPI T558

Technical Specifications

Camera	100
Image Capture Rate	
Field of View	7.0 x 5.2 mm
Sensor Resolution	11 μm
Pixel resolution	649 x 494 pixel
Droplet application	
Droplet volume	0.1 to 18.0 μL
Modes	Completely automatic (creation and release droplet)
Dimensions	140 x 360 x 190 mm
Software	Software for Windows XP, Vista and 7 (2 & 64 bit OS)

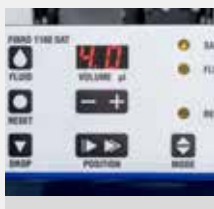
Ordering Information

Art. Nr.	Description
PG1050	DAT - Dynamic Absorption Tester

Scope of supply

Accessories

Art. Nr.	Description
PG1054	Well block - standard 10
PG1052	Well block - standard one
PG1053	Flat block
PG1061	Special tape to block - with holes
PG1062	Special tape to block - flat



← Display



← Contact angle



Industrial Physics Global Services

Calibration Services, Field/Repair Service, Calibration Contracts, Extended Warranty Options



Calibration, Repair and preventative Maintenance

Industrial Physics Global Services group is A2LA accredited - 17025 compliant. Through a series of high-level international agreements, calibration documentation generated by A2LA accredited - 17025 compliant vendors are accepted by all industrialized countries.

PM&C services are available for your entire laboratory regardless of instrument manufacturer

Industrial Physics has a wealth of knowledge in instrumentation covering a variety of industries. Our Global PM&C (Preventative Maintenance and Calibration) Group can provide calibration services for most laboratory instruments, not just equipment from Industrial Physics brands.

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- PM&C is available for your entire laboratory, including most instrument manufacturers.
- PM&C is a practical, cost-effective way to make sure your instruments maintain proper working performance.
- All certification is in accordance with the appropriate ASTM, TAPPI, ISO or other applicable standard.
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service-ic@industrialphysics.com or www.industrialphysics.com/ic

Calibration, Repair and preventive Maintenance

We offer a wide variety of calibration services for the TQC Sheen, C&W Specialist Equipment, Fibro System, and Sheen product ranges. As OEM manufacturer we are the best contact for calibrations, repair and preventive maintenance. All work is done in accordance to our ISO 9001 accreditation. When ISO 17025 accreditation is required, we can mediate and expedite your calibration to an ISO 17025 accredited laboratory.

Markets

- Package integrity testing
- Metal package testing
- Rigid plastic testing
- Electronics and automotive component testing
- Pharma & medical device packaging testing
- Industrial testing and measurement
- Paints, coatings & surfaces
- Process testing

What do we offer?

Our products are designed to be as robust and reliable as possible. Great care is taken in the selection of materials, design and manufacturing techniques. Nobody wants to interrupt test regimes for long maintenance, and we keep this in mind. However even the best design needs maintenance every once in a while. Choosing service provided by Industrial Physics Inks & Coatings will ensure that your products are kept in pristine condition.



Maintenance and spares kits

When replacing shims for a Dry Film Thickness gauge or the compression pads for the Comprehensive Abrasion Test, we provide the required kits for all our products. Regular replacement of these parts will ensure the best results for all measurements. Order your consumable and spares kit directly with your product and ensure maximum operation time and limit downtime to the max.

On-site service

Large equipment can be serviced on-site. Corrosion test cabinets, Comprehensive Abrasion tests and such, are amongst those products that need local support. We offer global support to these products with highly skilled technicians. On-site repairs and calibrations can be requested in advance. This ensures that all products will remain operational and within specification for as long as possible, with the shortest down time.

Calibration

At our facility in the Netherlands we provide the widest range of calibrations in the industry. It is our goal to be the service provider you can rely on. Calibrations are performed by our skilled team of technicians that are specially trained for all our equipment. Industrial Physics prides itself in striving for the highest traceability in our industry. For several parameters we have more primary standards in our facility than available in the rest of the world including NMI's. Industrial Physics is the only supplier that has primary standards for Gloss on our premises.

Certification

Certification issued for calibration is traceable to national and international standards. A traceable certificate is the basis for your laboratory's accreditation. Only proper certification will provide you with ease of mind for your accreditation. Knowing the deviations of products is the best way to provide accurate information. Our certificates are providing the correct information for peace of mind.

Repair service

Nobody wants to lose a trusted piece of equipment. With our service department defects to machines can be repaired an equipment kept in running conditions. Allowing for long use of the equipment, saving costs and saving valuable resources. Service by us guarantees the use of OEM parts, full repair to original specifications and if applicable updates.

Standards

Making sure your equipment is tested against the latest standards is essential for your laboratory. We not only strive to have the best calibration standards in house but we are also active in the creation of standard documents, both within ISO and ASTM. We assist you to make sure your equipment will meet upcoming standards.

Quick turnaround service

Fast turnaround time: 14 days (standard) to 3 working days on request at extra cost. Tailored test criteria ISO 9001: 2000 certified. When ISO 17025 accreditation is required, we can mediate and expedite your calibration to an ISO 17025 accredited laboratory.

Rent instruments

Rent instruments when an item is submitted for calibration / repair (Benelux only).



More info: service-ic@industrialphysics.com



Industrial Physics

Industrial Physics, a leader in package and product integrity test equipment, is trusted by millions of customers worldwide to ensure products meet rigid quality, safety and regulatory requirements. Our family of brands serves customers through five segments: beverage & canning, flexible packaging, inks & coatings, materials testing and product integrity.

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