



Visual Weld Gages

NONDESTRUCTIVE TESTING EQUIPMENT



ADJUSTABLE FILLET WELD GAGE
with unequal leg measurement feature
Measure 15 weld sizes plus throat thickness
DETEK P/N VWG-009



7 PC. FILLET TYPE GAGE
Measure 11 fillet weld sizes
DETEK P/N VWG-008

Gage now available with markings on both sides upon request.

- Stainless Steel
- Can Be Certified

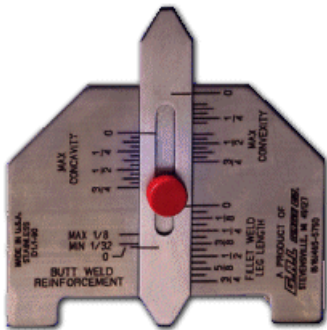
- All Gauges Stainless Steel



- Set Comes with Handy Key Chain and Pocket Pouch

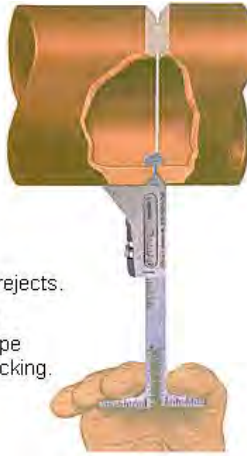
- 11 Different Sizes in Standard Sizes with Metric Equivalent Markings - 1/8" - 1"

POCKET FILLET WELD GAGE SET
DETEK P/N VWG-016



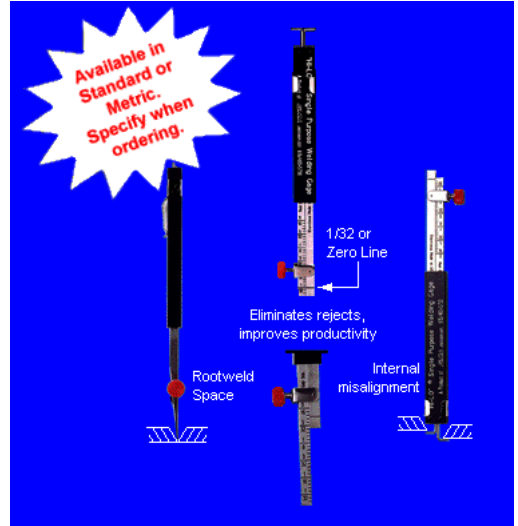
AUTO WELD SIZE TYPE GAGE
Check tolerance of convexity for butt and fillet welds. Pocket size.
DETEK P/N VWG-001

G.A.L. Hi-Lo Welding Gage Measures Internal Alignment



of pipe after fit-up/alignment, cuts radiographic rejects.
Measures internal misalignment of pipe before and after tacking.

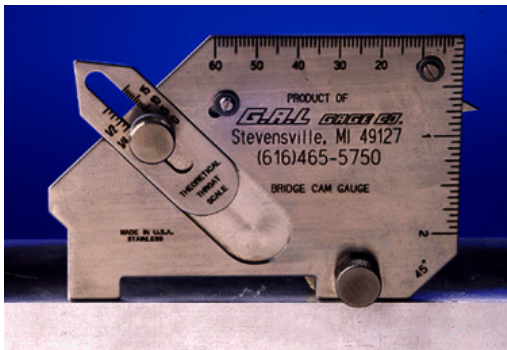
HI-LO WELDING GAGE
DETEK P/N VWG-005



Available in Standard or Metric. Specify when ordering.

1/32 or Zero Line
Eliminates rejects, improves productivity
Rootweld Space
Internal misalignment

SINGLE PURPOSE HI-LO GAGE
DETEK P/N VWG-006



BRIDGE CAM GAGE
Measures angle of prep, Excess weld metal, Undercut depth, Pitting depth, Fillet weld throat size, Fillet weld length, Outside alignment
DETEK P/N VWG-003



- Checks Undercut
- Checks Crown Height
- Checks Pits
- All Stainless Steel

NEW DESIGN

V-WAC UNDERCUT GAGE
DETEK P/N VWG-002



W.T.P.S. TYPE GAGE
Measures .010" deep undercut to tolerances +/- .0005"
DETEK P/N VWG-004

6805 COOLRIDGE DR ■ TEMPLE HILLS MD 20748
301-449-7300 ■ 800-638-0554 ■ FAX 301-449-7011

EMAIL: sales@detek.com



NONDESTRUCTIVE TESTING EQUIPMENT

Welders, CWI Inspectors, Instructors Now You Can Design Your Inspection Tool Kit

*Specify the tools you need from our catalog to suit your particular needs
and we'll put them in kit form with your own personalized nameplates.*

Cat # 12



Wrap-Around Pouch

Measures: 9" X 6 1/2" Open
6 1/2" X 4 1/4" Wrapped – Will fit in Pocket

Tools Included:

V-WAC / Fillet Weld Comp*, 6" General Scale*,
Telescoping Mirror, Penlite, & Single Purpose*

Tool Kit

Measures: 13" X 8" X 3"

Tools Included:

V-WAC Gage*, Magnifier, AWS Type Gauge*,
Hi-Li Gage, Micrometer w/Ball*,
Telescoping Mirror, & 6" Starrett Scale*



(*) Metric or Standard (inches)

NOTE: These are top of the line measuring tools! Prices can vary depending on the tools required.

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NONDESTRUCTIVE TESTING EQUIPMENT

Now You Can Design Your Inspection Tool Kit

Cat # 12



American Welding Society (AWS) Tool Kit

Tools Included:

0-150mm Dial Caliper, 6" Scale w/ Clip,
0-1" Micrometer, 2" Reading Glass,
7 Piece Fillet Weld Set, V-WAC Gage*,
& AWS Type Gauge*

Brief Case Type/Lock & Key

Measures: 18" X 12 1/2" X 3"

Tools Included:

V-WAC Gage*, Fillet Weld, WTPS Gage, Bridge
Cam, Single Purpose*, 6" Starrett Scale*,
Telescoping Mirror, Micrometer w/ Ball*, Hi-Lo Gage,
Skew-T Fillet Weld w/ Calc, AWS Type Gauge*,
ADJ Fillet Weld*, & Magnifier



(*) Metric or Standard (inches)

NOTE: These are top of the line measuring tools! Prices can vary depending on the tools required.

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REBAR DETECTION SYSTEM

- Location and orientation of reinforcing bars
- Measuring concrete cover depth
- Determination of bar diameter
- Compact, user-friendly indicating device with backlight
- ProVista PC software for fast data transfer and editing
- Can be operated in metric and imperial units

PROFOMETER 5⁺ utilizes the non-destructive pulse-induction method

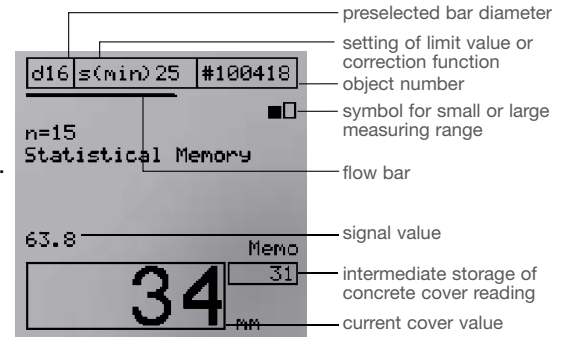


Standards: SN 505 262 • DIN 1045 • DGZfP B2 • BS 1881: Part 204

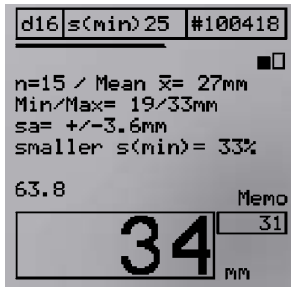
Model S • Basic Instrument

Various location aids are available:

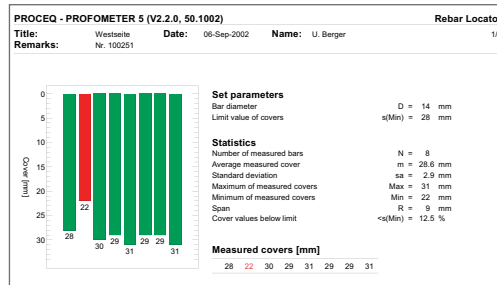
- Current value:** Distance from surface of reinforcement
- Flow bar:** Movement of flow bar indicates approach to metal object
- Beep tone:** Sounds immediately after crossing the bar axis. Selectable in two frequencies.
- Variotone:** The closer the probe to the bar, the higher the tone
- Signal value:** Measure of distance from probe to metal object



«Measuring with statistics» function



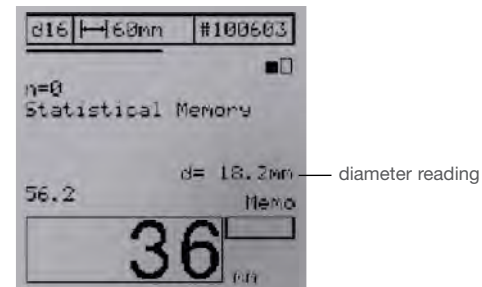
The statistical evaluation of the stored memo values appears when the END button is pressed.



Data transfer to PC and evaluation with ProVista Software

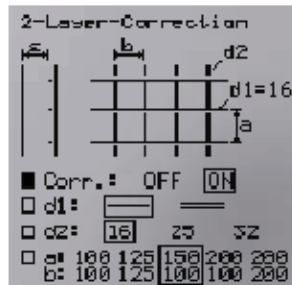
Determine the bar diameter of closely spaced parallel bars

The instrument compensates the influence of the neighboring bars.



Measure the cover depth in congested bar arrangements

Measure the bar spacing and select the measuring mode. The instrument compensates for the influence of the adjacent bars.

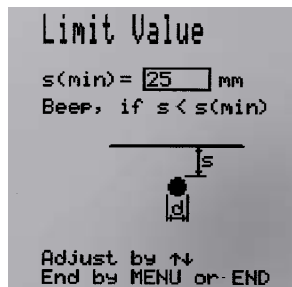


Detect bars with insufficient concrete cover

Suggested applications:

- Check after removing formwork
- Quality assurance
- Evaluation basis for repair

The universal probe can be moved rapidly with the preselected limit value. If the cover is too low, an acoustic warning signal is given.



profometer^R 5⁺

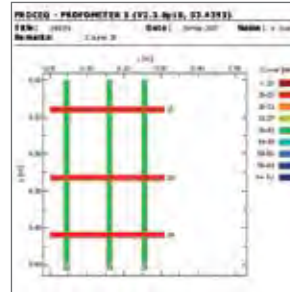
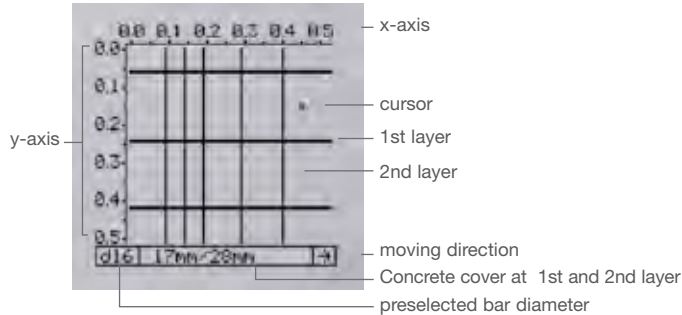
Modell SCANLOG • Identical to Model S - with these additional Features:

- "CyberScan" function to visualize reinforcing bars on the display
- "Measuring with grid" function for grey-scale display of concrete cover
- ScanCar probe cart with integrated path measuring device for scanning



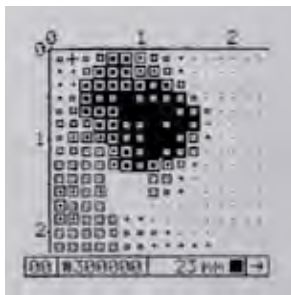
Make reinforcement visible with "Cyber Scan"!

Three scales are available: 0.5 x 0.5m, 1.0 x 1.0m, 2.0 x 2.0m

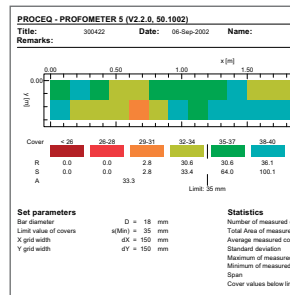


Data transfer to the PC and processing with ProVista Software

«Measuring with grid» function

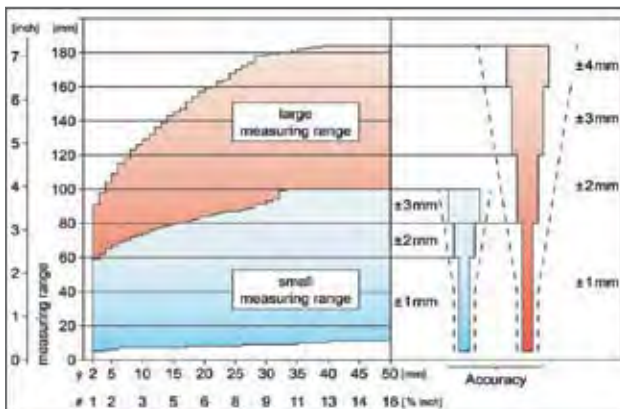


Display



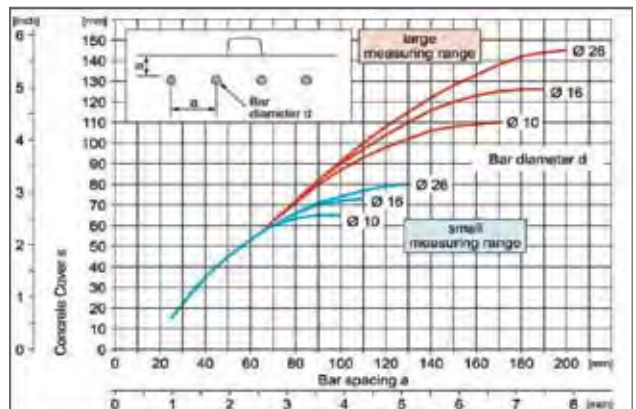
Data transfer to the PC and processing with ProVista Software

Measuring ranges and accuracy of the cover reading for individual bars...



- ∅ bar diameter in mm
- # bar diameter in «Bar size#»
- accuracy required by BS 1881: Part 204: ± 2 mm or ± 5%

...and unsurpassed resolution



The diagram shows the minimum bar spacing (a) at which the bars can still be individually detected as a function of the concrete cover (s).

Example : Bar diameter $d = 16 \text{ mm}$
 Concrete cover $s = 55 \text{ mm}$
 Minimum bar spacing $a = 70 \text{ mm}$

profometer[®]5⁺

Technical Information

Indicating device Model S

MEMORY: non-volatile memory for 40'000 measured values and 60 objects respectively

DISPLAY: LCD with backlight option

INTERFACE: RS232 or with Adapter for USB Port on PC

SOFTWARE: ProVista for downloading data and evaluation on PC

BATTERIES: 6 x 1.5V for 45h operation; 30h with backlight on

TEMPERATURE RANGE: -10° to +60° C

Universal probe

Probe for locating rebars and measuring cover depth in two depth ranges as well as determining rebar diameters.

Indicating device Model SCANLOG

The unit is identical to Model S, with additional features for the Cyberscan and the measuring with grid function.

Memory capacity: 120'000 values in function measurement with grid and a total of 60 objects.

Model S can be upgraded to Model SCANLOG. Contact Proceq for details.

Ordering Information

UNIT MODEL S

390 00 050 Rebar Detection System PROFOMETER 5+ Model S
Includes Indicating device, universal probe, probe cable 1.5 m, transfer cable 1.5 m, adapter RS232/USB, ProVista Software on memory stick, carrying strap, headset, protective sleeve for indicating device, operating instructions, carrying case, total weight 4.2 kg

UNIT MODEL SCANLOG

390 00 054 Rebar Detection System PROFOMETER 5+ Model SCANLOG
identical to Model S, with the additional features plus probe cart ScanCar with path measuring cable 1.55 m, total weight 4.5 kg

ACCESSORIES FOR BOTH MODELS

390 00 270 Test block
390 00 363 Telescopic rod for universal probe or ScanCar
390 00 280 Marking pen for universal probe

REPLACEMENT PARTS

390 00 068 Universal probe
390 00 084 Protective film for universal probe
330 00 470 Protection sleeve for indicating device
390 00 163 Probe cable 1.5 m
390 00 168 Path measuring device cable 1.55 m
330 00 456 Transfer cable 9/9 poles
390 00 542 Adapter RS 232 / USB
390 00 078 Carrying case
820 39 001 Operating instructions

Subject to change without notice.

All information contained in this documentation is presented in good faith and believed to be correct. Proceq SA makes no warranties and excludes all liability as to the completeness and/or accuracy of the information. For the use and application of any product manufactured and/or sold by Proceq SA explicit reference is made to the particular applicable operating instructions.



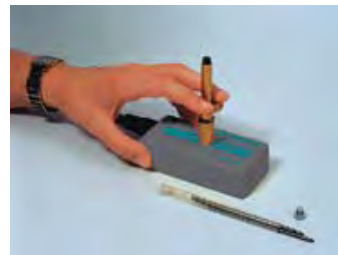
Main components



Test block



Telescopic rod for universal probe or ScanCar



Marking pen for universal probe



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proceq

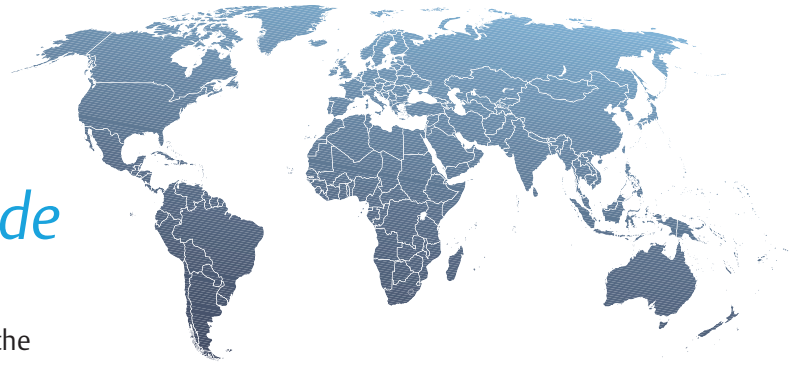
BRANSON



Bransonic® Baths

The simple, reliable solution to quality precision cleaning

BRANSON: A Recognized Leader in Ultrasonics Worldwide



For over 60 years, Branson has been the leader in the development of advanced ultrasonics and its application to a variety of uses.

Branson is recognized worldwide as an innovator, pioneering the use of the rugged, reliable 40 kHz transducers in sweep frequency baths.

Brasonic® baths are used widely in laboratory, light industrial, dental, medical, and specialty applications:

Laboratory/medical/special utilities: Cleaning of instruments or special parts, metal components, glass and ceramic.

Industrial/basic cleaning: Removing soils, contaminants, oils, and compounds from light industrial parts, electronics, jewelry, etc.

Beyond cleaning: Sample preparation; degassing liquids, mixing and homogenization, dissolving solids, cell lysing and dispersion of particles.

The Branson reputation for impeccable quality and reliable ultrasonics is unsurpassed. Our global network of distributors ensures that you will have the machinery, accessories, supplies, and support you need to meet your basic cleaning needs for the most demanding applications.



Branson® Ultrasonic Baths

Branson's innovations include our signature elevated control panel, positioned above and behind the bath to avoid damage and increase operator safety. With our unique sweep frequency technology to eliminate standing waves, and our pioneering 40 kHz industrial transducers, Branson ultrasonic baths have been the industry standard for quality, reliability, and precision cleaning.

The CPX Series

Advanced technology and digital performance in our most robust, versatile, ultrasonics baths.

The CPX Series features a variety of technological enhancements:

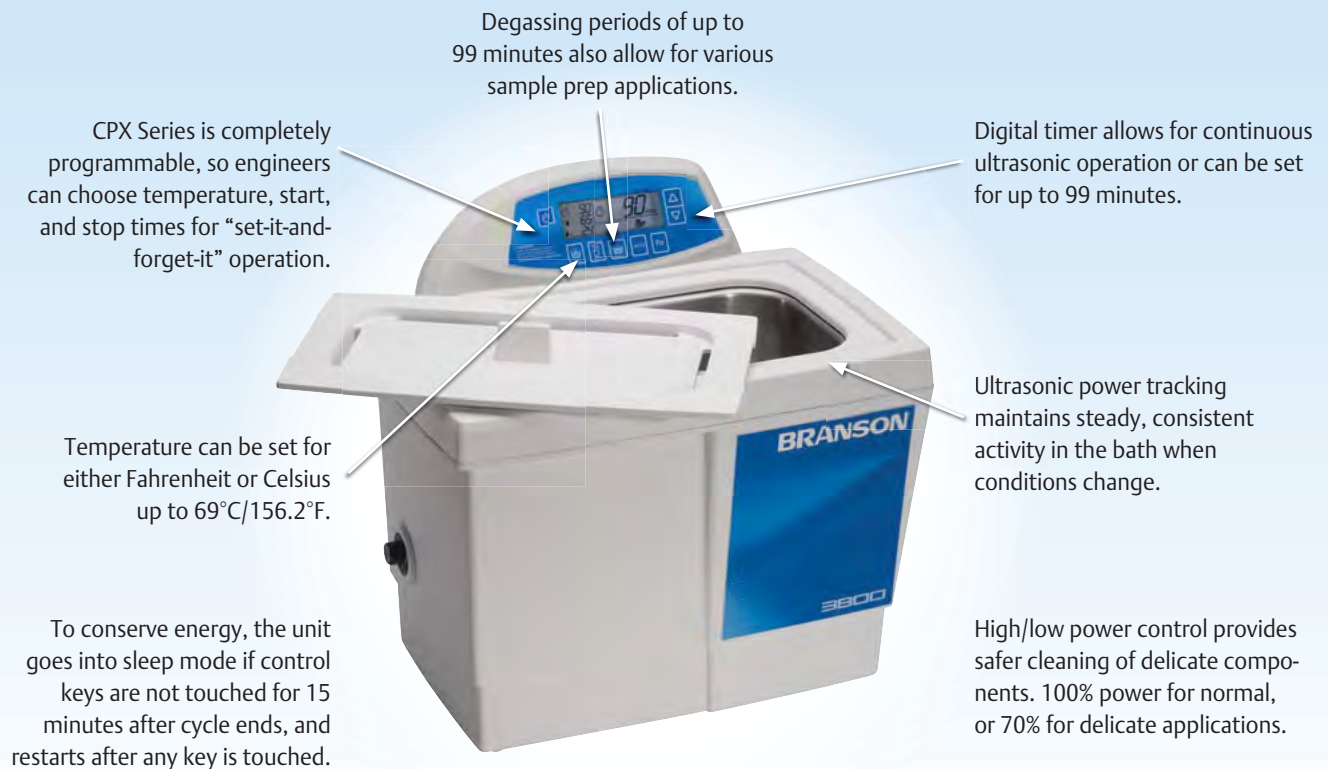
- **Constant activity/power tracking** automatically maintains the same ultrasonic power by adjusting for changes in liquid level and temperature caused by a light or heavy load. This helps ensure more uniform cleaning and consistent performance, even with multiple users or when bath conditions change.
- **Assures uniform, precision cleaning** over the entire surface, and consistent cavitation that reaches and cleans even tiny crevices on the parts.
- **High/low power control** adjusts the acoustic energy in the bath. It can be set at 100% power for normal to heavier loads, or at 70% power for lighter and more delicate applications, helping to protect delicate components from potential damage.
- **Temperature settings** are available up to 69C/156.2F, which can be set in either Celsius or Fahrenheit and programmed through the front panel for easy access and monitoring. This also allows for convenient re-calibration when needed onsite.
- **High-temperature visual alarm/auto shut-off** for added safety.
- **Sleep mode** provides energy savings automatically by shutting off unit if control keys are not touched within 15 minutes of cycle end. To restart, press any key.
- **Degassing and conditioning of solutions** through advanced wave modulation of up to 99 minutes also allow for a variety of sample prep applications.



Branson CPX Series

The CPX Series extended degassing capabilities (up to 99 minutes) allow for “beyond cleaning” applications for sample preparation such as mixing and homogenization, dissolving solids, cell lysing, and particle dispersion.

The CPX Series Features



The M Series

The value leader for quality and reliability.

The Bransonic M Series includes two simple-to-use models: the M and MH Series. Both series are designed for basic yet effective cleaning, with set-it-and-forget-it mechanical timers, which can be set up to 60 minutes or run continuously. MH Series units also offer a heating option. And both series are excellent for use in a variety of applications:

- Laboratories and dental offices
- Electronic components
- Industrial parts
- Jewelry and precious metals



Bransonic M Series

Precision Cleaning for All Types of Applications

Brasonic baths are in use worldwide, providing simple, effective results for the ultimate in ultrasonic cleaning.

Laboratory

Thoroughly removes blood, protein, and contaminants on tools such as glassware, lenses, instruments, and precision components.

Medical and Dental Labs

Offers a safer, more consistent way to clean dental and medical instruments in combination with sterilization.

Industry

Deep cleans to remove dirt, grease, wax, and oils from industrial parts and components of all kinds, including steel, light and nonferrous metals, plastic, and glass.

Electronics

Completely removes flux and contaminants from such precision components as PC boards, SMDs, quartz crystals, capacitors, and many others.

Jewelry

Thoroughly cleans and restores brilliance to watches, chains and charms, settings, coins, fine jewelry, and clockworks.

Optical

Ensures precision cleaning of optics.

Beyond cleaning

Brasonic ultrasonic cleaners also can be used for sample preparation; degassing liquids, mixing and homogenization, dissolving solids, lysing and dispersion of particles.

Accessories and Solutions

Accessories

Brasonic® ultrasonic baths also can be accessorized to best suit your specific cleaning or laboratory needs. Choose the appropriate suspension method for your applications, solid or perforated tray, basket, support rack, and beaker holder to customize each unit as needed.

The Right Cleaning Solution

It's the most important decision you can make. A large variety of excellent formulations are available, designed for specific applications. Proper selection is crucial for acceptable cleaning activity and to preclude undesirable reactivity with the items being cleaned.



BRANSONIC® AQUEOUS SOLUTIONS

Pour on the cleaning power! Always specify Branson aqueous cleaning solutions for your new Branson ultrasonic cleaner. Whether you're gently cleaning delicate optics or stripping rust of oxides, there's a Branson chemistry developed specifically for the job.

NOTE: Sold by the case: 12 quarts per case, 4 gallons per case. Larger sizes available. Ordering numbers are per case.



OC Optical Cleaner	Removes general soils, fingerprints, cerium oxide, pitch, and blocking waxes from optical lenses, and polishing compounds from glass and optical surfaces prior to deposition of coatings.	100-955-722 Quart 100-955-726 Gallon
JC Jewelry Cleaner	Removes general soils, particulates, fingerprints, oils, and oxides that accumulate with normal use.	000-955-214 Quart 000-955-216 Gallon
EC Electronics Cleaner	Removes oils, resins, rosins, and other soils from hard surfaces encountered in the electronic, plating, and other related industries.	100-955-920 Quart 100-955-914 Gallon
IS Industrial Strength Cleaner	Removes grease, oils, and particulates from automotive, aircraft, and similar mechanical components: cleans shop oils and light carbon deposits from valves fittings, and similar components.	000-955-114 Quart 000-955-116 Gallon
OR Oxide Remover	Removes rust and oxides from all metals.	000-955-514 Quart 000-955-516 Gallon
BC Buffing Compound Remover	Removes the most difficult buffing compounds and agents, tripoli, rouge, lime, diamond tripoli, etc.	000-955-314 Quart 000-955-316 Gallon
RSL Rust Stripper	Used for derusting and descaling of ferrous metals.	CPN-955-008 Quart CPN-955-003 Gallon
GP General Purpose	Removes general soils, fingerprints, dust, light oils and greases.	000-955-014 Quart 000-955-016 Gallon
GP General Purpose (Powder)	Removes general soils, fingerprints, dust, light oils and greases.	CPN-955-007 (3) 2 lb. Containers
MC-1 Metal Cleaner	Remove oils, greases and a wide variety of soils from aluminum and aluminum alloys, copper, brass, and steel substrates. Removes fabricating cutting and polishing oils. Displaces soils to allow for easy removal manually, or by use of a skimmer.	100-955-830 Quart 100-955-824 Gallon
MC-2 Metal Cleaner	Removes oils, greases and a wide variety of soils from ferrous metals, steel alloys, titanium alloys, copper and copper alloys and stainless steel (not recommended for aluminum and aluminum alloys).	100-955-840 Quart 100-955-834 Gallon
MC-3 Metal Cleaner	Remove oils, greases and a wide variety of soils from aluminum and aluminum alloys, copper, brass, and steel substrates. Removes fabricating cutting and polishing oils. Emulsifies, preventing soils from redepositing.	100-955-850 Quart 100-955-844 Gallon



DETEK

6805 Coolridge Drive

Temple Hills, MD 20748-6940

301-449-7300 FAX 301-449-7011

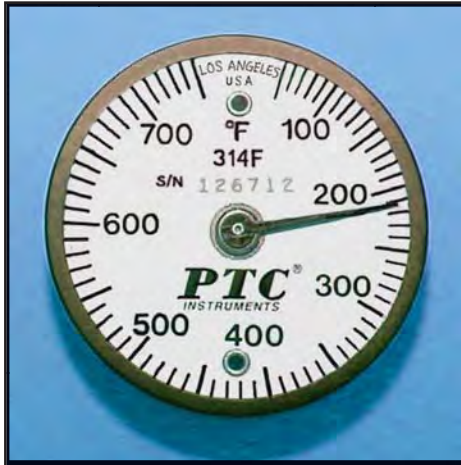
www.detek.com email: sales@detek.com



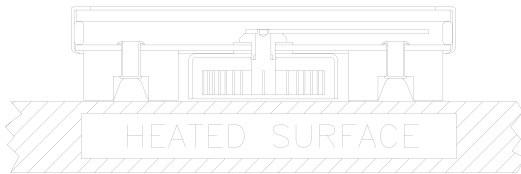
Dual Magnet Mount Surface Thermometers



Made In U.S.A.



Model 314F shown actual size, 2" O.D.



Cutaway view of surface thermometer

- **PTC® Quality -- Made in the U.S.A.**
- **Accuracy of $\pm 2\%$ of Full Scale Range**
- **NIST Certification Available**
- **Every Unit Individually Calibrated**
- **Dual Scale Models Available**
- **Single or Dual Max-Min Hands Available**
- **Dual Magnet Mount Standard -- Four Magnet or Tab Mount Optional**

THE best bimetal surface thermometer on the market for over sixty years. PTC®'s surface thermometers are unrivaled for their combination of accuracy, quality, versatility, and economy. Manufactured from the finest materials, these instruments will continue to give accurate readings for many years. Each thermometer is individually calibrated and serialized. Our thermometers have an accuracy of $\pm 2\%$ of full scale range and are backed by a one year warranty. Certification service using NIST traceable standards and in accordance with ANSI/NCSL Z540-1 is available for all of these units.

Model	Range	Divisions
312F	0°F to 250°F	2°F
313F	0°F to 500°F	5°F
314F	50°F to 750°F	10°F
315F	0°F to 150°F	1°F
330F	-100°F to +160°F	2°F
312C	-20°C to +120°C	1°C
313C	-20°C to +250°C	2°C
315C	-15°C to +65°C	1°C
330C	-70°C to +70°C	2°C

SPECIFICATIONS

1. Accuracy..... $\pm 2\%$ of full scale range.
2. Time constant..... from 0.06 to 1 minute.
(depending on the range)
3. Dimensions:
Diameter..... 2 in. (5.1 cm).
Height..... 1/2 in. (1.3 cm).
4. Weight..... 1-1/2 oz. (43 g).
5. Shipping weight 1 lb. (454 g).
6. Dual Scale models available..... see reverse.
7. Ancillary hand(s)..... see reverse.
8. Tab Mount or 4 Magnet Mount..... see reverse.

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Dual Scale Magnet Mount Surface Thermometers



Same great features as the Dual Magnet Surface Thermometers, but with °F & °C dual scale dials

MODEL	RANGES °F & °C	DIV.
312DS	0°F to 250°F -20°C to +120°C	5°F 2°C
313DS	0°F to 500°F -20°C to +260°C	10°F 5°C
314DS	50°F to 750°F 10°C to 400°C	10°F 10°C
315DS	0°F to 150°F -20°C to +65°C	2°F 1°C

Single or Max-Min (Dual) Ancillary Hands



Model 312FMM with Max-Min Ancillary Hands shown

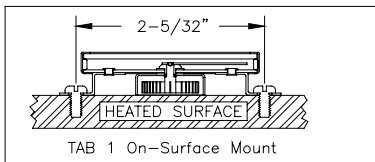
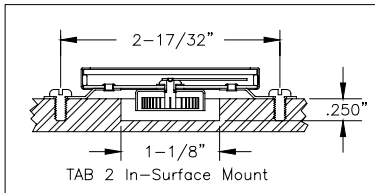
Single Ancillary Hand

This handy, resettable peak reading hand is available as an accessory on PTC's Dual Magnet Mount, Dual Scale, 4 Magnet Mount, and Tab Mount surface thermometers. The ancillary hand is reset by simply turning the reset knob. A magnetic clutch holds the hand in place at either the maximum **or** minimum temperature reached during a cycle.

Max-Min (Dual) Ancillary Hands

Max-Min hands are available on PTC's Dual Magnet Mount, Dual Scale, 4 Magnet Mount, and Tab Mount surface thermometers. This accessory has been designed to provide the user an easy way to obtain maximum **and** minimum temperatures for a given cycle. The hands are easily reset before each temperature cycle by using the reset knob and magnetic wand (Part No. 314.5MM).

Tab Mount Surface Thermometers



Tab Mounted Surface Thermometers

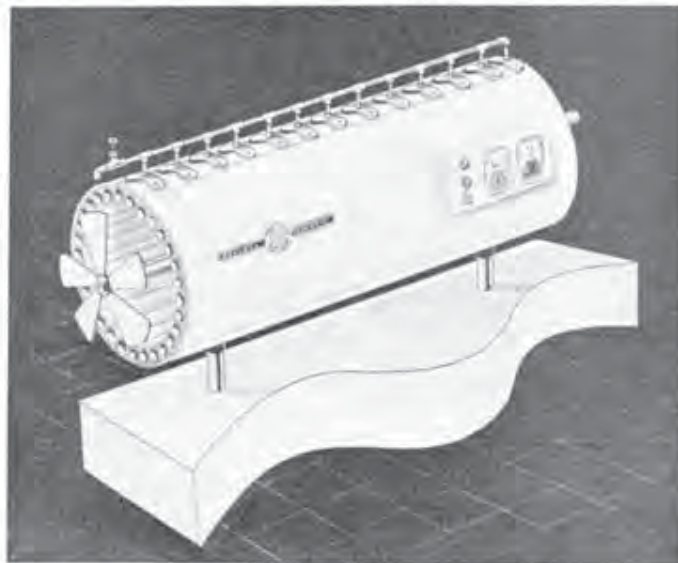
Two types of tabs are available for these thermometers. Tab 1 is for on-surface mounting and Tab 2 for in-surface mounting. The drawings show both methods of mounting. For in-surface mounting, a hole 1-1/8" in diameter by 1/4" deep is machined in the part to be measured. Pilot holes also need to be drilled for mounting screws. The tabs are provided with holes for the screws. When ordering, please specify whether Tab 1 or Tab 2 mounting is required.

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Turboencabulator

Dec. 31, 1962



(Photo 290440)

Fig. 1. Turboencabulator

THIS PUBLICATION CONTAINS INFORMATION ON THE FOLLOWING

- FUNCTION
- RATINGS
- SPECIFICATIONS
- OPERATION
- APPLICATION DATA
- DIMENSIONS
- TECHNICAL FEATURES
- ACCESSORIES
- EXTERNAL WIRING

ADDITIONAL INFORMATION

PRICE AND ORDER DATA—Refer to Factory.

WHERE TO BUY—See Handbook Section No. 8006, or contact person listed below.

WHERE TO GET SERVICE OR REPAIR—See Handbook Section No. 8009, or contact person listed below.

TECHNICAL PUBLICATIONS

Order from nearest General Electric Apparatus Sales Office or Distributor.

Copies of this publication	HBK 8359
Specification Guide Forms (Nonrestrictive) with copy of General Electric Specifications, printed herein	None
Installation Instructions	None
Operation and Service Instructions	None
Service Manual	None
Overhaul Instructions	None
MIL-illustrated Parts Breakdown	None
Recommended Spare Parts List	None
Renewal Parts Bulletin	None

(Sales Engineer's or Distributor's Name and Address)



DETEK

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www.detek.com email: sales@detek.com



Dec. 31, 1962

Turboencabulator

FUNCTION

To measure inverse reactive current in unilateral phase detractors with display of percent realization.

OPERATION

Based on the principle of power generation by the modal interaction of magnetoreluctance and capacitive directance, the Turboencabulator negates the relative motion of conventional conductors and fluxes. It consists of a baseplate of prefabricated Amulite, surmounted by a malleable logarithmic casing in such a way that the two main spurving bearings are aligned with the pentametric fan.

Six gyro-controlled antigravimic marzelvanes are attached to the ambifacient wane shafts to prevent internal precession. Along the top, adjacent to the panandermic semi-boloid stator slots, are forty-seven manestically spaced grouting brushes, insulated with Glyptal-impregnated, cyanoethylated kraft paper bushings. Each one of these feeds into the rotor slip-stream, via the non-reversible differential tremie pipes, a 5 per cent solution of reminative Tetraethylodohexamine, the specific pericosity of which is given by $P=2.5C_n^{4/7}$ where "C" is Cholmondeleys annular grillage coefficient and "n" is the diathetical evolute of retrograde temperature phase disposition.

The two panel meters display inrush current and percent realization. In addition, whenever a barescent skor motion is required, it may be employed with a reciprocating dingle arm to reduce the sinusoidal depletion in nofer trunions.

Solutions are checked by Zahn Viscosimetry techniques. Exhaust orifices receive standard Blevinometric tests. There is no known Orth Effect.

TECHNICAL FEATURES

- Panandermic semi-boloid stator slots
- Panel meter covers treated with Shure Stat (guaranteed to build up electrostatic charge in less than 1 second).
- Manestically spaced grouting brushes
- Prefabricated Amulite baseplate
- Pentametric fan

STANDARD RATINGS

Rating	Old Catalog No.	New Computer Insensitive Catalog No.
0-1000	6060606G6*	125387GLC1†

* Included Qty. 6 NO-BLO† fuses.

† Includes Magnaglas circuit breaker with polykrapolene-coated contacts rated 75A Wolfram.

‡ Reg. T.M. Little Gem Fuse Blower Corp.

ACCESSORIES

1. 8 ounces 5 per cent Tetraethylodohexamine with 0.01N Halogen tracer solution.
2. Interelectrode diffusion integrator.
3. Noninductive-wound inverse conductance control in little black box.
4. Analog to digital converter with reflected levorotatory BCD output (binary-coded decimal ie; 7, 4, 2, 1).
5. Quasistatic regeneration oscillator with output conductance of 17.8 millimhos.

APPLICATION

Measuring Inverse Reactive Current—

CAUTION: Because of the replenitive flow characteristics of positive ions in unilateral phase detractors, the use of the quasistatic regeneration oscillator is recommended if Turboencabulator is used in explosive atmospheres.

Reduction of Sinusoidal Depletion—

—Before use, the system should be calibrated with a gyro-controlled Sine-Wave Director, the output of which should be of the cathode follower type.

Note: If only Cosine-wave Directors are available, their output must be first fed into a Phase Inverter with parametric negative-time compensators. **Caution:** Only Phase Inverters with an output conductance of 17.8 ± 1 millimhos should be employed so as to match the characteristics of the quasistatic regeneration oscillator.

Voltage Levels Above 750V **Do Not Use** Caged Resistors to get within self-contained rating of Turboencabulator. **Do Use** Sequential Transformers. See HBK-8005.

Multiple Ratings—Optionally available in multiples of $\pi(3,141593)$ and $e(2,71828)$. If binary or other number-base systems ratios are required, refer to factory for availability and pricing.

Goniometric Data—Upon request, curves are supplied, at additional charge, for regions wherein the molecular MFP (Mean free path) is between 1.6 and 19.62 Angstrom units. Curves, relevant to regions outside the above-listed range,

may be obtained from:

Toricelli Barometer Works, Ltd.
Toroidal Turboencabulator Dept.
(TTD-3)
London W.C. 1, England.

In Canada address request to:

Turboencabulateurs
Canadien-Francais Ltee.
468 Jean de Quen, Quebec 10, P.Q.

Reference Texts

1. Zeitschrift fur Physik
Der Zerfall von Dunge LBM-1
H. Sturtzkampfleger, Berlin
2. Svenska Teckniska Skatologika Laro-varken
Dagblad 121—G. Petterson & W. Johansson, Stockholm
3. Journaux de l'Academie Francaise
Numero 606B
T. L'Ouverture, Paris
4. Szkola Polska
Turboencabulatorskiego
Ogloszenie 1411-7
Bogumiel Wroblyski, Warszawa.
5. Texas Inst. of Turboencabulation
AITE Bull. 312-52, J. J. Fleck, Dallas.

SPECIFICATIONS

Accuracy: ± 1 per cent of point

Repeatability: $\pm \frac{1}{4}$ per cent

Drift: less than 3 ft²-hrs/mo

Maintenance Required: Bimonthly treatment of Meter covers with Shure Stat.

Ratings (Standard): None

Ratings (Optional): All

Input Power: Volts-120/240/480/550 a-c
Amps—10/5/2.5/2/2 A
Watts—1200 W
Wave Shape—Sinusoidal
Cosinusoidal, Tangential or
Pipusoidal.

Operating Environment:

Temperature 32F to 150F (0C to 66C)

Max Magnetic Field: 15 Mendelsohn
(1 Mendelsohn = 32.6 Statorsteds)

Case:

Material: Amulite; Tremie-pipes are of
Crapaloy—(tungsten cowhide)
Weight: Net 134 lbs.; Ship 213 lbs.

DIMENSION DRAWINGS

On delivery.

EXTERNAL WIRING

On delivery.