

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

Picoprobe® BY GGB INDUSTRIES INC.

Model 18B and 19

Features

- High Input Impedance
- Low Input Capacitance
- DC to 350 MHz
- Can be mounted on any micropositioner for use with any probing system

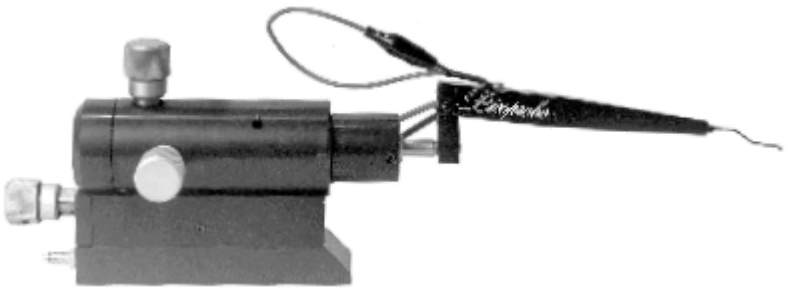


FIGURE 1

High impedance probes, **PICOPROBE® MODEL 18B and MODEL 19**, combine the most advanced MOS and bipolar technologies with special, low capacitance packaging techniques to achieve truly remarkable electronic measurement capabilities. While being manufactured each instrument is individually optimized for the best possible performance. The extremely low input capacitance, high input impedance, and almost negligible input leakage current permits the direct probing of even the most sensitive MOS dynamic nodes. At the same time, the full dc capability of this Picoprobe coupled with the high speed capability permits the full characterization of even the fastest circuits.

The 10 micron tungsten probe wire is tapered to an extremely fine point to allow the probing of lines less than 0.3 micron. The fine probe wire flexes when in contact with the circuit, so that damage to the circuit and probe point is minimized. Also the flexing tends to keep the probe point in contact with the circuit even in the presence of probe table vibrations. Model 18B and Model 19 probe tips are also available with a 20 and 50 micron tungsten probe wire sharpened to less than 1 and 3 microns respectively.

The circuitry located in the Model 18B and Model19 Picoprobe® body is very rugged; however, the unprotected MOS input in each probe tip is subject to destruction by electrostatic discharge. Should the probe tip become damaged, it can easily be removed and replaced.

Specifications	Model 18B	Model 19
Input Capacitance*	0.02pF	0.02pF
Input Leakage	10 femtoamps	10 femtoamps
Rise/Fall Time	1.2ns	1.2ns
Frequency Response	dc to 350 MHz	dc to 350 MHz
Operating Range	0 to + 15V range	-7 to + 8V

Linearity	0.2% 5V range / 2.0% 15V range	0.2% ± 3V range / 2.0% -7 to +8V range
Gain Accuracy	±5%	±5%
Signal Attenuation	(High input impedance oscilloscope) 10 to 1 (50 ohm input) 20 to 1	(High input impedance oscilloscope) 10 to 1 (50ohm input) 20 to 1
*For 3ns or longer rise and fall signals. Speed limitations of the capacitance cancelling circuitry results in approximately 0.06pF input capacitance for 1ns or shorter rise or fall inputs.		
Requires the use of a Picoprobe Power Supply. Please specify 110V or 220V when ordering.		

FIGURE 2

Picoprobe® Model 18B and Model 19 Replacement Tips

Part Number	>Tungsten Wire Shaft Diameter	Point Diameter
18B-1-10	10 micron	<0.1 micron
18B-1-20	20 micron	<1.0 micron
18B-1-50	50 micron	<3.0 micron
18B-2-10	10 micron	<0.1 micron
18B-2-20	20 micron	<1.0 micron
18B-2-50	50 micron	<3.0 micron
18B-4-10	10 micron	<0.1 micron
18B-4-20	20 micron	<1.0 micron
18B-4-50	50 micron	<3.0 micron



FIGURE 3 **photos not to scale**

Model 18B Pdf

Home Page

GGB INDUSTRIES, INC.	**P.O. BOX 10958**	**NAPLES, FL 34101**
Telephone (239) 643-4400	**Fax (239) 643-4403**	**email@ggb.com**

Picoprobe® is a registered trademark of GGB Industries, Inc.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP