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To Tony Kirkwood
From Dave Morris
Re Your fax of 12-14-00

Date 12-18-00

1. June 21 1995 letter. The model 120 Leakmeter has not been sold or manufactured since 1994. A few units are still being returned for repair to iTi QUALITEK, however the total number in 2001 we expect to be very low.
2. May 30 1995 telecon The instrument label will now bear the name "iTi QUALITEK" as we are now totally separated from Ion Track Instruments. The model number is Q200 the name Leakmeter has been dropped. This was a marketing decision no technical changes have occurred.

If you require any additional information please do not hesitate to contact me.

I thank you for your attention to this matter



David Morris.

Enclosed Q200&LEAKMETER 120 brochures.

Telephone record with Robert Waterfield (NRC - May 30, 1995).

1. Confirmed ITI Qualitek is a division of Ion Track Instruments.
2. Instrument will continue to use "Ion Track Instruments" label as detailed on drawing.
3. The Model number is Leakmeter 200 a this appears on instrument.



Duane H. [unclear]

500 Fordham Road
Wilmington
Massachusetts
01887
USA
telephone
(308) 436-3707

TO: Tom Rich - NRC

FR: David Morris - Ion Track Instruments, Inc.

DATE: June 21, 1995

RE: Model 120

To confirm Ion Track Instruments has discontinued manufacture of the Model 120 Leakmeter. We have not sold a unit in the USA in 1995 and have a zero stock level.

The Model 120 Leakmeter will not be sold in the USA and has been directly replaced with the Model 200 Leakmeter.

As discussed, we will however continue to service and calibrate any Model 120 Leakmeter return to ITI for repair. As with all our products, we are committed to do this for a number of years. I would like to assure you that full documentation concerning the 120 Leakmeter will be forwarded to you as soon as I have received all the relevant information from our manufacturing plant.

We have received a number of orders for the Leakmeter 200, which require urgent shipment. These orders have been held since March 1995, I would therefore appreciate receiving the license confirmation as soon as possible.

I thank you for your attention to our application and apologize for the consistent request for status update, however, the Leakmeter represents a considerable percentage of our business in 1995 and we are obviously very eager to start selling the product.

Sincerely yours,

David Morris
President

DM/lam

NEW
PRODUCT

LEAKMETER 120

*Microprocessor
Controlled*



- Portable-Lightweight.
- Direct reading of the leak rate or concentration $\text{cm}^3/\text{sec.}$ - oz/yr. - ppm etc.
- Memory to store readings.
- Data communication.
- High Sensitivity - $1 \times 10^{-9} \text{ cm}^3/\text{sec.}$
- Detects a wide range of gases including SF_6 - R_{12} - BCF - BTM

INTRODUCTION

The Microprocessor Controlled Leakmeter 120 is a high sensitivity trace gas leak detector designed to satisfy the increasingly demanding requirements of today's industry.

A third generation instrument, Leakmeter 120 combines simple user operation with the flexibility to be programmed exactly to a customer specification.

LEAKMETER 120

DESCRIPTION

Leakmeter 120 is fully portable and can be operated from a mains a.c. supply or from its own internal rechargeable battery.

The instrument consists of the hand held gun and console unit. The gun contains a trigger and membrane touch pad which allows routine operation of the instrument.

The console contains the battery and internal gas supply, as well as all the controls necessary to tailor the instrument to specific needs.



Calibrated for sulphur hexafluoride (SF_6) and the common refrigerant gases, Leakmeter 120 is extremely versatile – it can in fact be used with any electron capturing trace gas. The electron capture detector (e.c.d.) in the hand unit responds to very small concentrations of trace gas (<0.01 ppm) and hence will detect leaks below levels seen by most other portable leak detectors.

Sulphur hexafluoride is a chemically inert non-toxic, non-flammable, colorless and odorless gas. In addition, it is photochemically stable, so is not subject to restrictions on release to the atmosphere.

Presence of the trace gas can be expressed as a concentration (ppm) or a leak rate (cc/sec, cc/min, oz/yr).

OPERATION

Commonly, the component under test is pressurized with the trace gas and the probe of the Leakmeter is guided around the suspect leak areas.

When a leak is encountered, the trace gas enters the detector through the probe and this is immediately indicated by an audible alarm and a digital display of the rate.

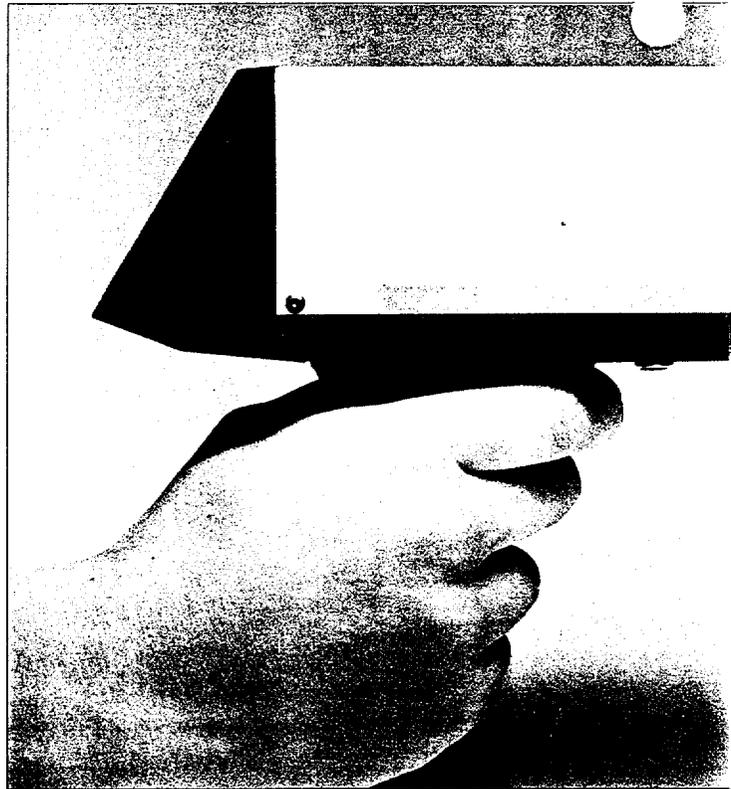
There is a simple facility for the user to enter an alarm level to identify good/bad components. Calibration to a known standard is a simple operation.

When a leak is located, the reading can be stored by pulling the trigger on the hand gun.

Additionally the reading can be held on the display by using the "peak hold" facility.

When desired, the results stored in the instrument memory can be dumped through an RS232 interface to a printer, VDU or computer.

Blocks can be allocated to totalize a number of leaks from a single component.



APPLICATIONS

Leakmeter 120 has been designed to adapt to a wide variety of applications which include:

Electrical Switchgear

To prevent sparking within high voltage switchgear, the manufacturer pressurizes the system with sulphur hexafluoride – an excellent electrical insulator.

Major manufacturers use the ITI Leakmeters to locate potentially costly SF₆ leaks.

Military Components

Missiles, torpedoes and mines all have extremely stringent leak tightness requirements. Torpedoes are often carried underwater for weeks at a time and any ingress of water can be damaging and dangerous. ITI Leakmeters are the standard leak detection method for ensuring integrity in such weapons in many parts of the world.

This is supported by "Category C" approval (for use in areas containing explosives) and a NATO Stock Number.

Fume Cupboard and Glove Box studies for the containment of toxic materials.

Using sulphur hexafluoride (SF₆) as the trace gas the Leakmeter has been successfully employed for fume cupboard containment studies. The Leakmeter conforms to the requirements stipulated in the following Test Standard. A.N.S.I. ASHRAE 110-1985.

Fire Extinguishers

Leakmeter 120 is ideal for detecting leakage of gases such as BCF (1211) BTM (1301) from fire extinguishers.

These are just a few of the problems solved using the Leakmeter 120. Its versatility lends itself to many other leak detection requirements and applications in the Automotive, Medical and Electronic Industries.

ACCESSORIES

Although the Leakmeter 120 comes ready for full operation, there are also optional accessories to maximize its utility.

Printer

ITI can supply a 40 column printer for the hard copy of all test results, the printer is supplied complete with a battery charger and interface cable.

Standard Leaks

With the increasing need to have instruments calibrated to known standards, ITI now supply two types of reference calibration leak kits.

A small sulphur hexafluoride leak (about 1×10^{-6} cm³/sec, — each individual leak rate specified accurately) ideal for checking the calibration of the instrument.

Alternatively, one can request a standard leak kit supplied to individual requirements. This can be for a number of trace gases (e.g. 10% SF₆, 1% R12 and for any leak rate).

Further details on these leaks are available from ITI. Both types of standard leaks are available with certificates of conformity and traceability.

Options

For information concerning Fixed Station Leak Testing and Rack Mounted Units, consult ITI.



