

BENDIX

C115 PERSONNEL MONITOR

the only air sampler with . . .

AUTOMATIC VOLTAGE REGULATION

Gives absolutely constant reading of $\pm 2\%$

Guarantees 8 hours of midjet impinger sampling

2.8 LPM ΔP 12" H₂O

Guarantees 14 hours of gravimetric sampling at

2 LPM ΔP 4" H₂O

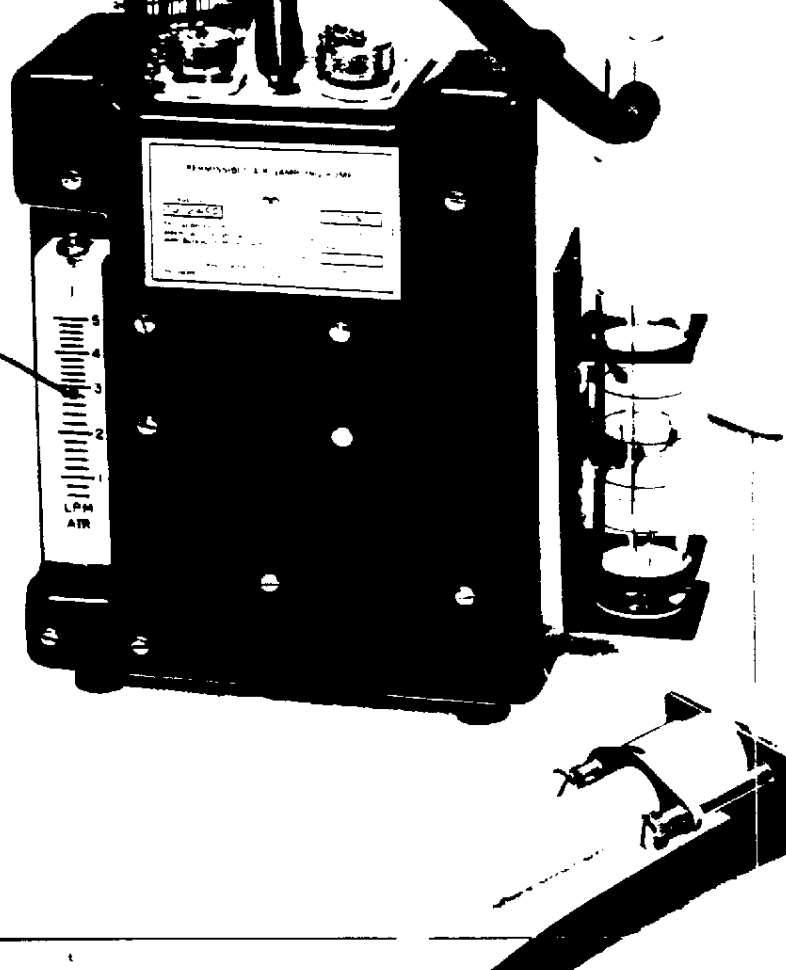
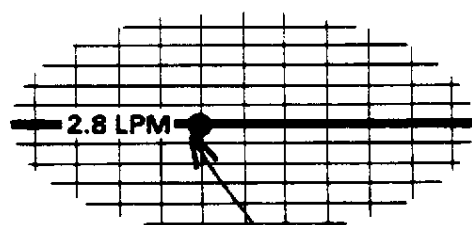
Eliminates flow rate adjustments during sampling period.

FLOAT PULSATION ELIMINATOR

Ends float bounce for precise reading

BUILT-IN BATTERY VOLTAGE TESTER

Allows instant check of battery condition



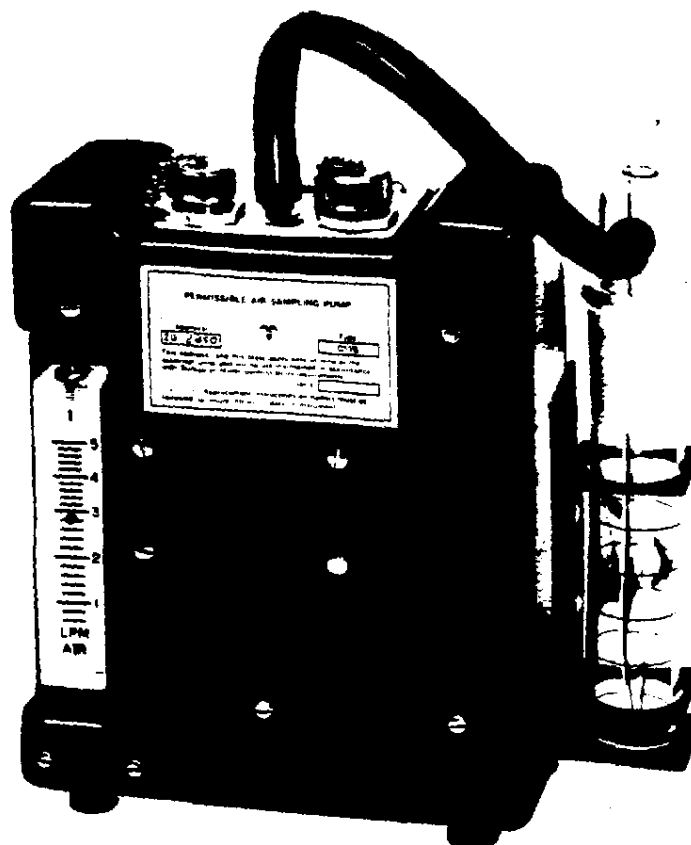
BENDIX

C-115 PERSONNEL AIR SAMPLER

Guaranteed to collect 99% of the sample . . . exceeding the rigid requirements of and approved by the Bureau of Mines for Intrinsically Safe Operation in Explosive Atmospheres.

Bendix superiority is demonstrated in the C115 PERSONNEL MONITOR. LIGHT-WEIGHT, COMPACT and VERSATILE . . . the C115 is an air sampler offering advanced features found in no other instrument in the field and may be used with midjet impingers, micro impingers, membrane filters or respirable mass samplers.

Powered by a 7.5 volt, 2 amp-hour rechargeable nickel cadmium battery, the C115 is supplied complete with a 110 volt/60 cycle battery charger. A precision diaphragm pump and hi-torque low current drain motor insures high efficiency monitoring.



Here's why the C115 can give you
99% sampling accuracy

FEATURES

- **AUTOMATIC VOLTAGE REGULATOR**
Gives absolutely constant reading of $\pm 2\%$.
Guarantees 8 hours of midjet impinger sampling at 2.8 LPM ΔP 12" H₂O
Guarantees 12 hours of gravimetric sampling at 2 LPM ΔP 4" H₂O
Eliminates flow rate adjustments during sampling period
- **FLOAT PULSATION ELIMINATOR**
Ends float bounce for precise reading
- **BUILT-IN BATTERY VOLTAGE TESTER**
Allows instant check of battery condition
- **LEAD-IN-AIR ANALYSES**
Simple 3-step procedure provides accurate analysis using Bendix Inorganic Lead-in-Air Reagents.
- **TDI-MDI DETERMINATIONS**
Will provide threshold limit values from 0.01 to 0.08 PPM using Bendix reagents and color standards.

C-115 PUMP PROVIDES THE NECESSARY VACUUM FOR PRACTICALLY ANY PORTABLE GAS ANALYSIS TEST

The C-115 is designed for the collection of toxic and combustible gases, vapors, dusts, fumes, and mists which are then evaluated by various analytical techniques. Numerous Bendix portable gas detection instruments and Colorimetric Detector Tubes can be used with the Sampler. The device, therefore, can be used to collect samples of explosive gases, oxygen, ammonia, carbon dioxide, carbon monoxide, chlorine, hydrogen chloride, hydrogen sulfide, mercury vapor, nitrogen dioxide, sulfur dioxide, toluene diisocyanate, lead dust and fumes, and chromic acid mist. Dust counts can also be made, using Midget Impingers in conjunction with a microscopic analysis. Particulate sampling can be performed for radioactive dust and beryllium dust.

A desired sample flow is obtained by setting the flow adjust screw to an indexed position on the flow meter. Our standard instrument comes factory calibrated at 2.8 LPM and 2.0 LPM. Special air flow calibrations are available on request.

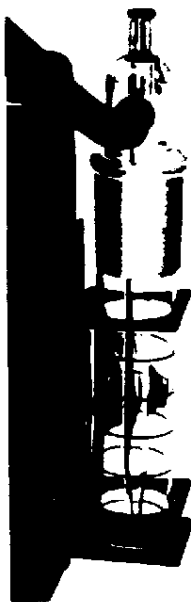
The C-115 is equipped with a tube fitting on the outlet or exhaust side of the pump. It can be used in positive pressure applications.

RSV 0005608

IMPINGER SAMPLING

The C-115 Air Sampler is designed for use with Bendix Calibrated Midget Impingers and Bubbler in sampling dust, gases, and vapors. It is the only Personnel Air Sampler on the market that guarantees 8 hours of continuous sampling at 2.8 LPM Δ P 12" H₂O.

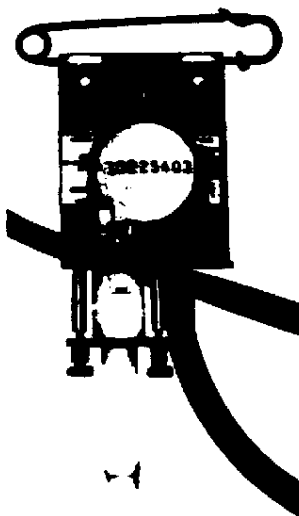
Threshold Limit Value Determinations from 0.01 to 0.08 PPM using Bendix TDI-MDI Reagents and Color Standards (Toluene Diisocyanate/Methylene-Bis (4 Phenylisocyanate)) are accomplished with the use of the midget impinger.



RESPIRABLE MASS LAPEL SAMPLER

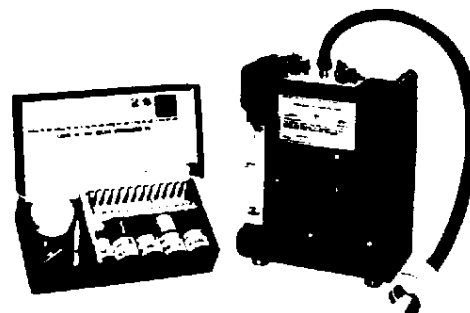
The Lapel Sampler, when used with the Bendix C115 Pump, simulates the collection characteristics of the human lung. As air is sampled, the cyclonic action of the unit separates the coarser particles of dust (those which would deposit in the upper respiratory passage) from the finer, more harmful particles which penetrate into the lung. The larger particles fall to the bottom of the tube, the finer particles are drawn to the filter assembly in the capsule, where they are trapped on a filter membrane for subsequent analysis, either weighing or counting.

Approved by the Bureau of Mines for Intrinsically Safe Operation in Explosive Atmospheres and the Environmental Health Service Bureau of Occupational Safety and Health.



RESPIRABLE DUST SAMPLER

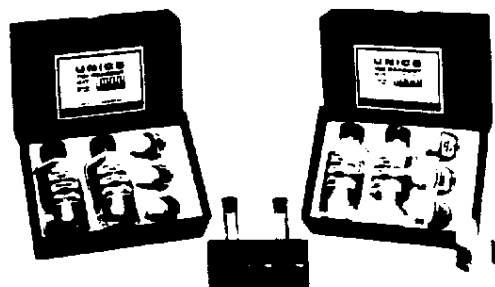
Filter Paper Holder adapts the C115 for personnel monitoring or sampling for the detection of lead dust, radioactive particulate, beryllium and other hazardous particulates.



ANALYZER FOR INORGANIC LEAD FUMES*

Simple 3-step procedure provides accurate analysis exceeding the requirements of the "Occupational Safety and Health Act of 1970." Using Bendix Inorganic Lead-in-Air Reagents and Color Standards, measures accurately within a range from 0.02 mg./m³ to 0.4 mg./m³ of inorganic lead.

This field method for atmospheric sampling provides immediate and accurate determinations of semi-quantitative lead concentration in air throughout an entire workday. In contrast to the chemical method that could take 8 hours or more, the field method for analyzing the same number of samples requires less than 10 minutes with the C115.



ANALYZER FOR TDI AND MDI**

The C115, when used with calibrated midget impinger, will provide Threshold Limit Value Determinations from 0.01 to 0.08 PPM using Bendix TDI-MDI Reagents and Color Standards (Toluene Diisocyanate/Methylene-Bis (4 Phenylisocyanate)).



C115 ATTACHE UNIT 3600-18

For total convenience the C115, battery charger and all accessories fit compactly into this handsome attaché style carrying case. Case provides excellent protection for unit, while portfolio in cover is ideal for valuable reports, test papers, instruction literature and suggestions for care of unit.

Description	Part Number	Description	Part Number
C-115 Air Sampler w/Battery and Charger	3650-10	*37 mm 3-Part Plastic Filter Holder.	3600-300
C-115 Air Sampler Only	3650-05	*37 mm Membrane Filter	3600-301
Ni-cad Battery 7.5V	3600-31	(0.8 Micron Size).	
Battery Charger 110V 60Hz	3600-20	Filter Paper 25 mm Pkg. of 100	60692
Standard Calibrated Midget Impinger	7202	2 ft. Rubber Tubing 3/16 ID	2110-32
Impinger Holder	3600-35	Code 40/20 Inorganic Lead-In-Air	
Sampling Head Ass'y w/Cyclone,		Reagents with Color Standards for Lead	
Hose and Clip	3900-90	Dust in air evaluation (50 evaluations)	2250-10
Sampling Cassette/Capsule Assembly	3900-906	TDI/MDI Color Standards	2200-30
Filter Holder 25 mm Pkg. of 6	1107	TDI/MDI Reagents	2200-20
*Filter Holder and 37 mm Membrane	3600-309	Attaché Case w/Ethafoam Insert	3600-18
Filter (0.8 Micron Size) for Asbestos			
Dust Sampling.			

*Part Nos. 3600-309, 3600-300 and 3600-301 Filter Holder and Filter Media (0.8 Micron Size) complies with Federal Register Regulations 1910.93a for Asbestos Dust Sampling.

* Ref. Enrique A. Quino — **Field Method for the Determination of Inorganic Lead Fumes in Air** — The Journal of the American Industrial Hygiene Association — Vol. 20, No. 2 (April 1959). Printed in U.S.A.

Ref. Marcali, Kalman — **Microdetermination of Toluenediisocyanates in Atmosphere — Anal. Chem: 29, 552 (April 1957).

K. E. Grim and A. L. Linch — **Recent Isocyanate-in-Air Analysis Studies** — AIHA: Vol. 25 (May-June 1964).



NATIONAL ENVIRONMENTAL INSTRUMENTS, INC.

P. O. Box 580, Pilgrim Station, Warwick, R. I. 02888

Tel. (401) 738-3710

Cable NEICO TWX 710 387-1584

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⊕ Zink SAFETY EQUIPMENT
OF MISSOURI, INC.
10282 BACH BOULEVARD
ST. LOUIS, MISSOURI 63132
PHONE 314-426-0886

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