
Pneumercator-en

Autor:

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https://en.wikipedia.org/wiki/Level_sensor

The Pneumercator. DESCRIPTION AND OPERATION.

By Henderson B. Gregory, Associates.

GENERAL DESCRIPTION.

The Pneumercator was invented by Mr. Harry S. Parks, of Philadelphia, Pa., with intention of providing an apparatus that would measure the depth and volume of the contents of tanks, reservoirs, etc., with extreme accuracy and register this measurement at any convenient place at any distance from such tank or reservoir.

It was manufactured in various models to meet the requirements of its application, all of which work on the same principle and consist of essentially the same elements.

These elements are:

- (1) A balance chamber
- (2) A mercury gage, which is calibrated in feet and inches and the corresponding units of weight or volume;
- (3) A pump or other means of furnishing compressed air;
- (4) A control valve, directly attached to the mercury gage and also connected, through small piping, to the balance chamber and air pump.

Figure 1 shows a diagram arrangement of the component parts, and Figure 2 a detail of the control valve.

By placing the handle of the control valve in its various positions, connection is made exclusively,

- (a) between the balance chamber and the air pump,
- (b) between the balance chamber and the gage,
- (c) the reading of the mercury gage can be returned to zero without losing the pressure

Principle of operation

The Pneumercator P-Series Tank Gauge is designed to provide remote indication of the contents of vented storage tanks containing non-corrosive liquids.

The reading is continuously provided as long as the external air compressor is operating. The system operates on an adaptation of the hydrostatic principle. An external air compressor with a clean air supply pressurizes the transmission tubing and 3/4" air bubbler pipe.

The pressure required to purge the line is equal to the back pressure of the tank liquid static head. Excess air escapes out the tank vent. The P-Gauge bellows expands in response to the back pressure exerted by the liquid head. The pointer, being linked to the bellows assembly, rotates to provide the read-out on a calibrated scale.

This gauge can only be used on vented tanks, or on tanks whose diameter and capacity compatible with those shown on the dial. For corrosive liquids, check with Pneumercator for specific requirements.

PNEUMERCATOR TANK GAUGES for Water and Fuel Oil Tanks

ABOARD ship, Pneumercator Tank Gauges afford the standard means of centralizing the gauging of the many fuel oil, ballast, fresh water and other tanks. The Pneumercator Tank Gauge combines in remarkable degree—Simplicity, Accuracy, Ruggedness of Construction and Convenience.

No floats, diaphragms, electric contacts or other parts requiring attention and replacement. There are no moving parts.

Tank Gauges for Distance Indicating

The indication at a distance of the liquid contents of tanks and other vessels is of great convenience in chemical works specially where the

crude method of using a dipping rod is ruled out on account of the risk and by the volatility or toxic properties of the liquid.

The " Pneumercator system of Kelvin Bottomley and..

Some characteristics of the Pneumercator System

The connection of the gauge to a number of tanks involving a saving in initial costs. An interesting feature of these gauges is that with tanks of uniform cross section from "empty" to "full" a "weight of liquid " scale on the gauge will always read the correct weight of liquid despite changes which may occur in the specific gravity of the liquid. A special kind of Pneumercator gauge is made for indicating the water level in steam plant hotwells, which are operated on the closed feed system; it is known as the "K.B.B. hotwell gauge".

A variety of types of Pneumercator gauge outfits are available to suit all kinds of special cases, and one may be mentioned specially

In the ordinary steam drum gauge glass, the Pneumercator boiler gauge is placed below, or above, or at any reasonable distance from the boiler and thus in easy view of the firemen. Its important feature is that the gauge system does not carry any special indicating liquid but merely water from the boiler: so that at any time while in service the Pneumercator boiler gauge can be drained and flushed through, thus allowing the attendant to assure himself (as in the case of the ordinary steam drum gauge glass) that all passages are clear. If special indicating liquids are used in such gauges they can not be drained and flushed through since that would eject the liquid out of the system

Welcome To Pneumercator Online

www.pneumercator.com/

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Pneumercator logo. Small Drop Entry.

www.pneumercator.com/docs/sales/brochures/P-Series.pdf

Tradueix aquesta pàgina

3 d'abr. 2013 - by Pneumercator) is installed. ... Pneumercator hydrostatic tank gauging systems ... system has a hand pump built into the gauge case. A.

the pneumercator: a description of its installation ... - Wiley Online Library

onlinelibrary.wiley.com/doi/10.1111/j.1559-3584...x/pdf

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per HB Gregory - ?1915

The Pneumercator was invented by Mr. Harry S. Parks, of. Philadelphia, Pa., with ... (4) A control valve, directly attached to the mercury gage and also connected ...

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www.btb.termiumpplus.gc.ca/.../alpha-eng.html?...PNEUMER...

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TERMIUM® is the Government of Canada's terminology and linguistic data bank.

Liquid Level Control Systems | Pneumercator

abovegroundfuelstoragetanks.com/...gauges/pneumercator-li...

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We are proud to carry Pneumercator liquid level control systems for use with our ASTs. Pneumercator is the most trusted name in the industry, providing high ...

Pneumercator Overfill Storage Tank Alarm - YouTube

<https://www.youtube.com/watch?v=7zKYwMmPUIQ>

27 d'ag. 2012 - Penjat per dphorowitz

This tank is equipped with a Pneumercator alarm and a Morrison spill b. ... Water Level Sight Gauge - How to ...

pneumercator gauge - definition - English - Glosbe

<https://glosbe.com> › Dictionary English › English-English Dictionary

Pneumercator | John W. Kennedy Co., Inc.

<https://www.johnwkennedyco.com/index.jsp?...=/Pneumercat...>

Tradueix aquesta pàgina

Items 1 - 60 of 92 - LC1002-11-ASC Pneumercator 2-Channel 115vac NEMA4X Alarm ...
MP461SC-052-21 Pneumercator 48" Flexible Mag Level Probe w/ - Dual.

The Pneumercator Tank-gauge and Draught Indicator

<https://books.google.es/books?id=1PzXSAAACAAJ> - Tradueix aquesta pàgina

1921 - ?Cap previsualització

The Pneumercator Tank-gauge and Draught Indicator (patented.)

<https://books.google.es/books?id=...> - Tradueix aquesta pàgina

1923 - ?Cap previsualització

<https://books.google.es/books?id=1sj8SAAACAAJ> - Tradueix aquesta pàgina

1955 - ?Cap previsualització

Diccionario enciclopédico marítimo (inglés-español): - Pàgina 308

<https://books.google.es/books?isbn=8428380775> - Tradueix aquesta pàgina

Luis Delgado Lamelland - 2010 - ?Previsualització

battery gauge. Voltímetro de acumulador. (Elect.). bridge gauge. Galga de puente. brine gauge. Salinómetro. (Ap. de med.) ... Pneumercator". (N.c.). pressure gauge. Manómetro de presión. (Evaporador, etc.). rain gauge. Pluviómetro. (Ap. de ...

Notes on Instrumentation and Control - Pàgina 23

<https://books.google.es/books?isbn=1483104915> - Tradueix aquesta pàgina

G. J. Roy - 2013 - ?Previsualització - ?Més edicions

COCK THREE WAY COCK AIR - GAUGE - VENT Fig. 33 Pneumercator Gauge Pneumercator Gauge. Fig. 33 shows ... of a typical pneumercator gauge commonly used for measuring the quantities of liquids in deep and double bottom tanks.

Instructions for Installing and Operating Pneumercator Gauges

<https://books.google.es/books?id=KbcGtwAACAAJ> - Tradueix aquesta pàgina

A.S.M.E. Mechanical Catalog and Directory - Pàgina 297

<https://books.google.es/books?id...> - Tradueix aquesta pàgina

1921 - Visualització de fragment - Més edicions

A Pneumercator Gauge installed in any tank will provide 1 perpetual inventory of the liquid stored, put in or withdrawn. It will operate with equal accuracy on tanks open to the atmosphere or under pressure or vacuum, and its accuracy is not ...

Chemical Age - Volum 31 - Pàgina 277

<https://books.google.es/books?id...> - Tradueix aquesta pàgina

1934 - Visualització de fragment - Més edicions

Tank Gauges for Distance Indicating Measuring Instruments An Improved Vacuum Evaporating Plant 20" Vacuum /r> ...
For example, these parts are often In the Pneumercator System the only connection between the tank and the gauge is a ...

The Chemical Age - Volum 31 - Pàgina 277

<https://books.google.es/books?id...> - Tradueix aquesta pàgina

1934 - Visualització de fragment - Més edicions

indication at a distance of the liquid contents of In the Pneumercator System the only connection between the tank and the gauge is a small + inch tube which can be handled like an electric light cable. Above: Pneumercator Distance Indicating ...

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Vol. 39, núm. 1 - ?Revista - ?Visualització completa

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M E R C A T O R TANK GAUGES for Water and Fuel Oil Tanks AB'A' ship, Pneumercator Tank Gauges afford the
standard ...