

# Dräger Pac<sup>®</sup> 7000

<b>en</b>	Instructions for Use § 2	<b>sv</b>	Bruksanvisning § 72	<b>bg</b>	Ръководство за работа § 142
<b>de</b>	Gebrauchsanweisung § 9	<b>et</b>	Kasutamisjuhised § 79	<b>ro</b>	Instrucțiuni de utilizare § 149
<b>fr</b>	Notice d'utilisation § 16	<b>lv</b>	Lietošanas instrukcija § 86	<b>hu</b>	Használati útmutató § 156
<b>es</b>	Instrucciones de uso § 23	<b>it</b>	Naudojimo vadovas § 93	<b>el</b>	Οδηγίες Χρήσης § 163
<b>pt</b>	Instruções de utilização § 30	<b>pl</b>	Instrukcja obsługi § 100	<b>tr</b>	Kullanma talimatı § 170
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<b>nl</b>	Gebruiksaanwijzing § 44	<b>hr</b>	Upute za uporabu § 114	<b>zh</b>	使用说明 § 183
<b>da</b>	Brugsanvisning § 51	<b>sl</b>	Navodilo za uporabo § 121	<b>ja</b>	取扱説明書 § 190
<b>fi</b>	Käyttöohjeet § 58	<b>sk</b>	Návod na použitie § 128	<b>ko</b>	사용 설명서 § 197
<b>no</b>	Bruksanvisning § 65	<b>cs</b>	Návod na použití § 135		

## 1 For Your Safety

**Strictly follow the Instructions for Use**  
Any use of the device requires full understanding and strict observation of these instructions. The device is only to be used for the purposes specified herein.

**Use in areas subject to explosion hazards**  
Devices or components for use in explosion-hazard areas which have been tested and approved according to national, European or international (Explosion Protection Regulations) may be used only under the conditions explicitly approved in their approval and with consideration of the relevant legal regulations. This equipment or components may not be modified in any manner. The use of faulty or incomplete parts is forbidden. The appropriate regulations must be observed at all times when carrying out repairs on these devices or components.

Repair of the instrument may only be carried out by trained service personnel according to Dräger Service Procedures.

### Safety Symbols used in this Manual

While reading this manual, you will come across a number of warnings concerning some of the risks and dangers you may face while using the device. These warnings contain "signal words" that will alert you to the degree of hazard you may encounter. These signal words and the hazard they describe are specified as follows:

**DANGER**  
Indicates an immediately hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING**  
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

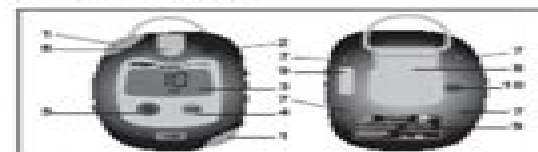
**CAUTION**  
Indicates a potentially hazardous situation which, if not avoided, could result in physical injury, or damage to the product. It may also be used to alert against unsafe practices.

**Notice**  
Additional information on how to use the device.

## 2 Intended Use

- The Dräger Pac 7000 measures gas concentrations in the ambient air and indicates alarms at preset thresholds.

## 3 What is What?



- |                                   |                 |
|-----------------------------------|-----------------|
| 1 Alarm LED                       | 6 Gas Opening   |
| 2 Atom                            | 7 Bump          |
| 3 Concentration Display           | 8 Chip          |
| 4 [OK] key (Overdose Acknowledge) | 9 Label         |
| 5 [p] key (Bump Test)             | 10 PL interface |



- |                              |                            |
|------------------------------|----------------------------|
| 1 Fresh Air Calibration Icon | 7 Error Icon               |
| 2 Span Calibration Icon      | 8 Notice Icon              |
| 3 Pressure Icon              | 9 Low Battery Icon         |
| 4 Peak Concentration Icon    | 10 Selected measuring unit |
| 5 TVOC Icon                  | 11 Concentration display   |
| 6 STEL Icon                  |                            |

## 4 Operation

**CAUTION**  
Check and, if necessary, adjust the calibration before carrying out safety-relevant measurements. A bump test should be performed before each use.

- 4.1 Turning the instrument on**
- Press and hold [OK]. The display counts down until start-up: "3, 2, 1".

**Notice**  
All display segments are lit. Next, the LED, Atom and vibrating alarm are activated in sequence. Check these

- The instrument will perform a self-test.
- The software version and the gas no. icons are displayed.
- The A1 and A2 alarm limits are displayed.
- If the calibration interval function is activated the days remaining until the next calibration, e.g. "x CAL, x Days + 20 s" are displayed.
- If the bump test interval function is activated, the time until the bump test interval elapses is displayed in days, e.g. "x DA + 120 s".
- After that, 20 seconds the gas concentration is displayed and the instrument is ready for use.

**WARNING**  
For the O2 version after the first turning on of the instrument, a sensor warm-up time of up to 10 minutes is needed. The gas value flashes until the warm-up time has passed.

### 4.2 Before entering a working place

**WARNING**  
The gas opening is equipped with a dust and water filter. This filter protects the sensor against dust and water. Do not touch the filter. Replace it immediately or clogged filter immediately. Ensure that the gas opening is not covered and that the device is also near to your breathing zone. Otherwise the device will not work properly.

- After turning the instrument on, the actual measurement value will be shown in the display.
- Check for the notice icon [N]. When it is recommended that you perform a bump test as described in chapter 4.3.
- Clip the instrument to clothing before working in or near potential gas hazards.

### 4.3 Performing a "bump test" with gas

**CAUTION**  
Risk to health! Test gas must not be inhaled. Observe the hazard warnings of the relevant safety data sheets.

- Prepare a Dräger test gas cylinder with 6.5 mm and a gas concentration higher than the alarm threshold to be tested.
- Connect Dräger Pac 7000 and the test gas cylinder to the calibration adapter or connect the device to the Dräger Bump Test Station.
- To enter the bump test mode, press the [p] 3 times within 3 seconds. The instrument beeps twice, quickly. The notice icon [N] begins to flash.

**Notice**  
With Dräger Bump Test Station "Piston" the unit can be configured to automatically shut the pump test without pressing any key. In this case the manual start of the bump test is deactivated.

- To activate the bump test press [OK].
- When the regulator starts to let test-gas flow over the sensor.
- If gas concentration exceeds the alarm thresholds A1 or A2 the corresponding alarm will occur.

# Pac 7000 Operating Manual

**Yan Bai**



## **Pac 7000 Operating Manual:**

**Campaign Guide for Congressional Candidates and Their Committees** ,1994      Poor's Manual of Railroads ,1922  
*The Official Railway Guide* ,1909      *Oldsmobile 4-4-2 and W-Machine : Restoration Guide* T. Patrick Sullivan, These value packed guides feature hundreds of photographs and a wealth of information necessary to restore interiors exteriors wiring engines transmissions and accessories to factory original condition      **Standard Handbook of Petroleum and Natural Gas Engineering** William C. Lyons,Gary J Plisga BS,2011-03-15 This new edition of the Standard Handbook of Petroleum and Natural Gas Engineering provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this text is a handy and valuable reference Written by over a dozen leading industry experts and academics the Standard Handbook of Petroleum and Natural Gas Engineering provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer s library A classic for the oil and gas industry for over 65 years A comprehensive source for the newest developments advances and procedures in the petrochemical industry covering everything from drilling and production to the economics of the oil patch Everything you need all the facts data equipment performance and principles of petroleum engineering information not found anywhere else A desktop reference for all kinds of calculations tables and equations that engineers need on the rig or in the office A time and money saver on procedural and equipment alternatives application techniques and new approaches to problems      Federal Item Identification Guide Defense Logistics Services Center (U.S.),1978      **Complete Digest of the Decisions of the Supreme Court and District Courts of Appeal of the State of California** California,1910      A *Marmac Guide to Los Angeles and Northern Orange County* Inge, Arline,2006      *The Official Guide of the Railways and Steam Navigation Lines of the United States, Puerto Rico, Canada, Mexico and Cuba* William Frederick Allen,Edwin Stevens Allen,Andrew J. Burns,1919      *Commerce, Justice, Science, and Related Agencies Appropriations for 2014* United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2013  
**Climatological Data. New Mexico** ,1935      The Official Guide of the Railways and Steam Navigation Lines of the United States, Porto Rico, Canada, Mexico and Cuba ,1899      **Military Construction, Veterans Affairs, and Related Agencies Appropriations** United States. Congress. House. Committee on Appropriations. Subcommittee on Military Construction, Veterans Affairs, and Related Agencies,2014      *The Lawyers Reports Annotated* ,1915      *Monthly Catalog of United States Government Publications* ,1989      **Hazmat Team Spotlight** Robert A. Burke,2020-12-17 Written by a hazardous materials consultant with over 40 years of experience in emergency services the five volume Hazmatology The Science of Hazardous Materials suggests a new approach dealing with the most common aspects of hazardous materials containers and the affected environment It focuses on innovations in decontamination monitoring instruments and personal

protective equipment in a scientific way utilizing common sense and takes a risk benefit approach to hazardous material response This set provides the reader with a hazardous materials Tool Box and a guide for learning which tools to use under what circumstances Volume Five Hazmat Team Spotlight covers hazardous materials teams across the United States Levels of response vary between urban and rural areas as do resources This volume covers the history vehicles types of response equipment and resources as well as procedures and innovations across different teams nationwide FEATURES Presents geographical and historical background of departments and hazmat teams Includes department organization and resources Provides an exploration of selected specific department case studies nationwide Outlines basic operation procedures Highlights resources training and hazmat exposures both transportation and fixed      **Interstate Commerce Commission Reports** United States. Interstate Commerce Commission,1940      *Mistletoe Literature of the World* Robert F. Scharpf, Frank G. Hawksworth, Bernard J. Erickson,1976      **Oil Age** ,1913      Official Guide of the Railways and Steam Navigation Lines of the United States, Porto Rico, Canada, Mexico and Cuba ,1923

## **Pac 7000 Operating Manual** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Pac 7000 Operating Manual**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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