



GENESIS INTERNATIONAL, INC.

SHERLOCK™ PAC 5500 (O₂) SENSOR



O2 PART NUMBER 87-0162

Ideally suited for personal monitoring applications, the Pac® 5500 provides quick detection of carbon monoxide, hydrogen sulfide or oxygen. Accurate, reliable and easy to use, this small, ergonomic instrument has no lifetime limitation.

SMALL YET ROBUST

Small in size and light in weight, the Pac® 5500 has been developed with the needs of industrial users and applications in mind. The Pac® 5500 provides easy, single-handed operation, even when wearing gloves, and is designed to withstand the toughest environments. The impact-resistant rubber housing is impervious to corrosive chemicals and meets the requirements of IP65 to ensure operation even when sprayed with water.

EVENT LOGGER

Able to store up to 60 events complete with dates and times, the Pac® 5500 incorporates an IR interface and can be easily linked to a PC via a connecting cradle. As a result, significant events such as switch on/off, gas and battery alarms, error modes, configuration changes, fresh air calibrations and bump tests can be downloaded, printed and stored.

TECHNICAL DATA

DIMENSIONS 2.5HW x 3.3W x 1.0D (64 x 84 x 25)
Inches (mm)

WEIGHT 3.8 oz. (120 g)

AMBIENT CONDITIONS TEMPERATURE
-20 – 120 °F (-30 – 50 °C)

PRESSURE 700 – 1300 hPa

HUMIDITY 10 – 90 % r. h.

INGRESS PROTECTION IP65

DISPLAY Language-free LCD display, continuous indication of concentration, notice and alarm functions

BATTERY LIFE 8 hours of use per day,
(typical at 25° C) 1 minute alarm per day:

CO, H₂S > 2 years

O₂ (PT# 87-0162) > 12 month

ALARMS Visual (360° flashing LEDs at top & bottom), audible (multitone > 90 dB at 30cm;1ft), vibrating

INSTRUMENT LIFE No lifetime limitation

WARRANTY 2 years

EVENT LOGGER Storage of up to 60 events including concentration levels, date and time

APPROVALS

CE-Sign (89/336/EEC, 94/9/EC)

ATEX I/II M 1/1 G EEx ia I/II C T4

UL Class I, II Div 1, Group A, B, C, D, E, F, G, Temp. Code T4

cUL Class I, II Div 1, Group A, B, C, D, E, F, G, Temp. Code T4

IECEX Ex ia II C T4

GOST_51330.0-99 (_60079-0-98); _51330.10-99 (_60079-11-99);_Exial / 0ExialICT4

PAC® 5500 – AT A GLANCE

- High performance XXS Sensors
- No lifetime limitation with simple battery, sensor and filter replacement
- 8-15 second function test with the Bump Test Station
- Optional calibration function after a failed function test
- Adjustable bump test interval
- Gas inflow from above and the front
- Optional high visibility labels for instrument recognition at a distance

SAFETY FIRST

The instrument's sensor has been specially positioned to allow gas access at both the top and front so that gas detection is continuous if the unit is placed in a pocket or if a gas inlet is accidentally covered.

NO LIFETIME LIMITATION

Designed for long-term operation, the Pac® 5500 boasts an unlimited lifetime. The battery and the sensor can be easily replaced. Also, the dust and water filter on the front of the instrument can be replaced if clogged with dirt or mud.

MINIATURE SENSOR TECHNOLOGY

Incorporating the latest miniature sensor technology, the Pac® 5500 has been specifically developed for use in personal monitoring and handheld applications. These innovative sensors, which offer a long, expected lifespan from 5 to 8 years, combine high performance with a fast reaction time of just ten seconds.

CLEAR, HIGHLY VISIBLE DISPLAY

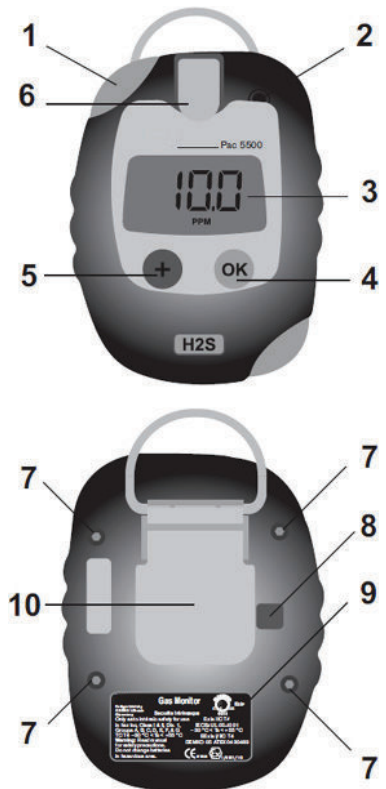
The clear, easy to see, large liquid crystal display shows both the gas concentration and the measurement unit. As an option, the instrument can also be configured to display just the type of gas. The concentration is then displayed only when the set alarm levels have been exceeded. Language-free to avoid any misunderstanding, this continuous numeric display can also be back-lit to improve readability in darker environments. To ensure that the Pac® 5500 can be identified quickly, even at a distance, overlays in yellow (hydrogen sulfide) and blue (oxygen) are also available.

WARNINGS AND ALARMS

In addition to vibrating and audible, multi-tone alarms, the Pac® 5500 shows a clear, 360° visual alarm via bright, flashing LEDs at the top and base of the instrument. Alarm thresholds can be set by the user, and gas alarms include both a pre and main alarm. The instrument will also emit both pre and main alarms before loss of battery power bringing maximum confidence to the user. If there should be a problem with the electronics or the battery or the sensor, the user will receive a clear, immediate fault alarm and display indication. A further "life signal" option, which can be activated and/or disabled to suit specific requirements, is also available.

KEY FEATURES

- 1 Alarm LED
- 2 Horn
- 3 Concentration Display
- 4 [OK] Key On/Off/Alarm
- 5 [+] Key Off/Bump Test
- 6 Gas Opening
- 7 Screw
- 8 IR interface
- 9 Label
- 10 Clip



BUMP TEST AND CALIBRATION

Bump Testing allows users to test equipment against a known gas concentration on a regular basis. Bump tests verify that instruments are functioning correctly. The Pac® 5500 is equipped with adjustable bump test and calibration intervals to meet the needs of different applications, it displays a warning as soon as a bump test or calibration is required. Should the warning be ignored, the instrument can automatically display an "out of order" error message. Users can also select this same error message as an option to indicate that the calibration interval has expired. Bump tests usually take between 8 and 15 seconds. To ensure that they can be performed quickly and easily, the Pac® 5500 can be used with the Bump Test Station. This economical unit allows both the instrument and sensor performance to be checked anywhere, without the need for additional power. Each successful test is automatically stored in the data logger. The user can choose for failed tests to render the instrument "out of order". An optional mobile printer is also available for those applications where hard copies are required. The mobile printer stores up to 700 tests for download to a PC. Fresh air calibration can be performed during the boot sequence at start up and is easy to perform. Calibration can be carried out by docking the instrument to a PC, in addition, an optional automated test and calibration system is also available. The recommended inspection interval for Pac® 5500 is 2 years.



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