



# DIGITAL PRESSURE GAUGE

## AVD10008



**LARZEP, S.A.**  
Avenida Urtiaga, 6  
48269 MALLABIA, SPAIN  
Tel. +34 943 171200  
Fax. +34 943 174166  
e-mail: [sales@larzep.com](mailto:sales@larzep.com)  
[www.larzep.com](http://www.larzep.com)

**LARZEP AUSTRALIA PTY. LTD.**  
139 Wedgewood Road,  
HALLAM, VIC. 3803 AUSTRALIA  
Tel. +61 (3) 9796 3744  
Fax. +61 (3) 9796 5964  
e-mail: [sales@larzep.com.au](mailto:sales@larzep.com.au)  
[www.larzep.com.au](http://www.larzep.com.au)

**LARZEP AUSTRALIA PTY. LTD.**  
49A Sustainable Avenue  
BIBRA LAKE, WA 6163 AUSTRALIA  
Tel. +61 (8) 9418 4988  
Fax. +61 (8) 9418 2644  
e-mail: [sales@larzep.com.au](mailto:sales@larzep.com.au)  
[www.larzep.com.au](http://www.larzep.com.au)

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**1. BEFORE USING THE EQUIPMENT AND SECURITY**

Please read these instructions before installing and starting up the digital manometer AVD10008.

Failure to follow the instructions will make all guarantee, warranty and compensation claims null and void.

- Ensure that the digital manometer is suitable for your application.
- Check that the materials that come into contact with the medium are compatible with the media that are going to be measured.
- Ensure that all the equipment and accessories are suitable for maximum working pressure.
- Perfect function and operating reliability of the device can only be guaranteed for the values specified in the technical data sheet.
- Only qualified personnel are permitted to install the equipment and make the electrical connection.
- Correct tools should always be used with a maximum torque of 25 Nm.
- Damaged devices should not be started up. If damage occurs during operation, suitable measures should be taken to prevent persons or property from being put at risk by the damaged digital manometer.
- No modifications should be done to the manometer. It should be repaired only by the manufacturer.
- Manometer manufactured in compliance with IP67.
- Ensure that the manometer is correctly installed and comply with the limits specified in the technical features.

**2. TECHNICAL FEATURES**

<b>MODEL</b>	<b>AVD10008</b>
<b>Screen</b>	4½ digit LCD display, 15 mm height, with back light illumination Bar graph display, 33 segments (with peak and hold function)
<b>Accuracy</b>	±0.25% FS type ±0.5% FS max
<b>Scan rate</b>	10 ms
<b>Measurement ranges to EN</b>	0 - 1.000 bar, 0 - 15.000 psi, 0 - 100 MPa
<b>Measuring unit</b>	bar, psi, MPa
<b>Overload limit</b>	Max. 1.500 bar
<b>Pressure connector</b>	1/4" BSP male - Adaptor: 1/4" BSP female - M16x2 female
<b>Memory</b>	MIN / MAX
<b>Voltage</b>	Battery 2 x 1.5VDC AA. Alkaline - Service life: 1.500 hours (without light)
<b>Protection</b>	IP 67, EN 60529
<b>Temperature ranges</b>	
- Operating	-10 a +50°C
- Fluid	-20 a +80°C
- Storage	-20 a +60°C
- Relative humidity	< 85 %
<b>Case</b>	Ø 79 mm, Width = 33 mm - With protection: Ø 90 mm, Width = 45 mm Material: Zinc die cast with rubber protection TPE
<b>Parts in contact with media</b>	Stainless steel, NBR, ceramics
<b>Weight</b>	540 g

### 3. START-UP

	<ol style="list-style-type: none"> <li><b>1</b> - Bar graph: Graphic indication of the actual pressure. A pressure peak is indicated by a pixel (graduation mark) Indicated value is refreshed at intervals of 50 ms (20 measurements/s).</li> <li><b>2</b> - Actual value display (15 mm): Indicates actual pressure. Indicated value is refreshed at intervals of 300 ms (3 times/s).</li> <li><b>3</b> - MIN/MAX/FS (8 mm): Indicates minimum value, maximum value or upper limit of the scale, according to setting. Indicated value is refreshed at intervals of 300 ms (3 times/s).</li> <li><b>4</b> - Battery status (5 segments).</li> </ol>
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	<p><b>ON/OFF:</b> Connect / Disconnect gauge   Press during 2 seconds. Turns on the backlight (for 20 seconds)</p>
	<p>Select function: MIN, MAX o FS  <b>MIN:</b> Minimum value  <b>MAX:</b> Pressure peak  <b>FS:</b> Upper limit of scale</p>
	<p><b>MENU:</b> Press during 2 seconds. Auto Power On-Off / Change units  <b>ZERO:</b> Zero point calibration</p>
	<p><b>RESET:</b> Resets the device to the current measured value MIN/MAX  <b>OK:</b> Confirm menu functions</p>



**CONNECTION (ON):** When pressing this key, the gauge turns on and a self-test procedure is carried out.  
**DISCONNECTION (OFF):** Press the key again and the gauge will turn off.  
**LIGHTING:** Press the key during 2 seconds. Backlights turns on and will turn off automatically after 20 seconds.



#### MIN / MAX INDICATION

Key function is sequential, values are shown in the display in sequence: MIN, MAX, FS.  
 MIN/MAX function is used to measure pressure peaks. Lowest (MIN) and highest (MAX) measured values are stored in the MIN/MAX memory.  
 When the gauge is turned off memory is deleted.  
 When different pressure test will be carried out successively, MIN/MAX memory should be deleted after each measurement.

Press key to delete MIN/MAX values.

#### INDICACION FS (FullScale)

Indicates the upper limit of the scale. It is designed to increase readability of the bar graph function.

#### DISPLAY OFL

Indicates that the applied pressure is outside of full scale range.



**MENU FUNCTIONS**

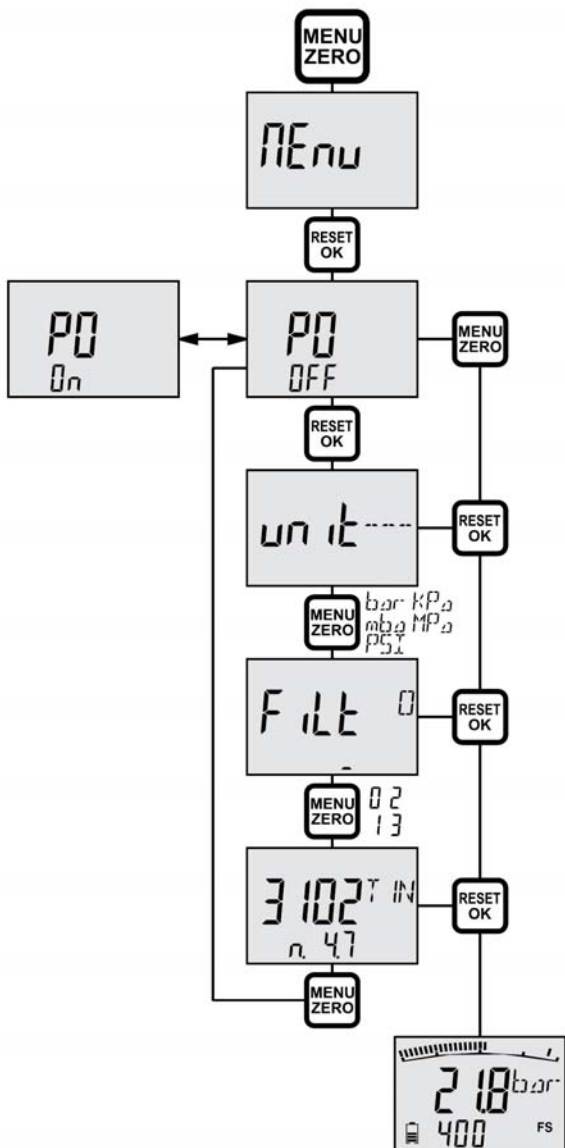
Press MENU key during 2 seconds to activate menu functions.

Press MENU key again to select next function. Pulsando

Press OK key to save function setting.

Following settings can be made in the MENU function:

- Automatic Power Off: on or off.
- Unit selection: bar, PSI or MPa.
- Filter settings.
- Display serial number.



**Automatic Power Off**

Once menu function is activated, press key. There are two different configurations: Automatic Power Off or Continuous operation. These settings remain stored and are active when the device is turned off and on again.

*Automatic Power Off*



Press key. Automatic Power Off function is activated and the gauge will disconnect automatically after 5 minutes.

*Continuous operation*



Press key. The gauge should be turned off manually.

**Unit selection**

Once menu function is activated, press key until is displayed. Change the unit pressing . Order: bar, PSI, MPa. Confirm unit selection pressing .

**Filter settings**

Once menu function is activated, press key until is displayed. Change the filter pressing . Confirm filter selection pressing .

**Display serial number**




Once menu function is activated, press key until is displayed.  
1 line: display of serial number.  
2 line: display of software version.

### ZERO POINT CALIBRATION

Zero point can be corrected manually if undesired deviations occur when there is no pressure in the system (atmospheric pressure).

Zero point correction sets the current value to zero. When carrying out this function ensure no pressure is being applied to the system.

Press  key.  will display.

	Indicates the zero point correction. Display indicates 0.0 bar as actual value. Correction remains active until the gauge is turned off.
	If measured pressured (0 bar) is bigger than 5% of measurement range, OFL/ZEro will display (3 sec). Zero point correction cannot be carried out. Ensure no pressure is being applied to the system.
	Resetting zero point correction: turn off the gauge. Zero point correction is no longer active when the device is turned off and on again.

### REPLACE DE BATTERIES

Turn off the gauge before replacing the batteries.

Open the battery compartment on the back of the gauge and insert new batteries. Ensure correct polarity of the batteries. (2 x 1.5 VDA - AA Alkaline)

 Battery symbol displays battery status.

In continuous operation (without light) service life of the batteries is 1.500 hours approx.

## 4. WARRANTY

**LARZEP, S.A.** guarantees its products against all design and manufacturing defects for the durations of two years from the date of purchase. This guarantee does not include the ordinary wear of both metal and non-metal parts, abuse, using the equipment beyond its rated capacity and any wear or damage incurred as a result of using a hydraulic fluid which is not recommended by **LARZEP, S.A.**

Please note that if the equipment is disassembled or serviced by anyone other than an authorized service dealer or by **LARZEP, S.A.**, this guarantee is rendered null and void.

In the event of a warranty claim, return the equipment, to **LARZEP, S.A.** or the authorized dealer which sold you the hydraulic equipment, **LARZEP, S.A.** will repair or replace the faulty equipment, whichever is deemed most appropriate. **LARZEP, S.A.** shall not be held liable for any consequential damages or losses, which may occur as a result of faulty equipment.

**5. DECLARATION OF CONFORMITY****DECLARACION DE CONFORMIDAD****E**LARZEP, S.A.  
Dirección: Avda. Urtiaga, 6  
48269 Mallabia ESPAÑA

Declaramos bajo nuestra exclusiva responsabilidad la conformidad de los productos a los que refiere esta declaración, con las disposiciones de la directiva: 2006/42/CE

**DECLARATION OF CONFORMITE****F**Nous, LARZEP, S.A.  
Adresse: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Déclarons sous notre seule responsabilité que les produits auxquels se réfère cette déclaration sont conformes aux dispositions des Directives: 2006/42/EC

**DECLARAÇÃO DE CONFORMIDADE****P**Nós, LARZEP, S.A.  
Endereço: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Declaramos, sob nossa única responsabilidade, que os seguintes produtos, incluídos nesta declaração estão em conformidade com o disposto na Directiva: 2006/42/EC

**ÖVERENSSTEMMELSEERKLÄRING****DK**Vi, LARZEP, S.A.  
Adresse: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Erklærer på eget ansvar, at følgende produkter som er omfattet af denne erklæringen, er i overensstemmelse med bestemmelserne i Direktiv: 2006/42/EC

**ERKLÆRINGOM OVERENSSTEMMELSE****N**Vi, LARZEP, S.A.  
Adresse: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Erklærer på eget ansvar, at følgende produkter som dekkes af denne erklæringen, er i overensstemmelse med bestemmelserne i Direktiv: 2006/42/EC

**ÜBEREINSTIMMUNGSERKLÄRUNG****D**Wir, LARZEP, S.A.  
Anschrift: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Erklären auf eigene Verantwortung, daß folgende Produkte, auf die sich diese Erklärung bezieht, mit den Bedingungen der Direktiven, 2006/42/EC übereinstimmen.

Tipo, Type, Typ, Tyypki.

**SM / SAM / SH / SAH / SP / SMP / SPR / SX / SMX / STR / SAT / SATM / STX / SL / SSR / T / TE / TD / D / DDR / DDA / DH / DAH / DM / DI / JM / JP / JH****W / WP / X / Z / ZR / HAM / HAE / HAZ / HAG / HAS / HFM / HFE / WI / HAP / HAB / HAT****AP / AR / AZ / AV / AVD / AVT / AT / ATH / AY****CK / CC / CN / FU / FV / FZ / FA / CY / CT / C / AA / AU / BS / LAS / LAX / PH / CB / CH / CM****A / AB / AC / AF / B / DLG / F / HN / HL / VA / VB / VC / VZ / EC / EE / EM / EZ / CA**Mallabia, ESPAÑA 2015 / 03 / 27

Lugar y fecha, place and date, lieu et date, plats och datum, paikka ja päivämäärä, udstedelsessted og-dato, ort und datum, plaats en datum, local e data, luogo e data.

**DECLARATION OF CONFORMITY****GB**We, LARZEP, S.A.  
Address: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Declare under our sole responsibility that the following products to which this declaration relates conform with the provisions of Directives: 2006/42/EC

**DICHIARAZIONE DI CONFORMITÀ****I**Noi, LARZEP, S.A.  
Indirizzo: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Dichiariamo sotto la nostra esclusiva responsabilità che i prodotti ai quali questa dichiarazione si riferisce sono conformi quanto previsto dalle Direttive: 2006/42/EC

**VAATIMUSTEMUKAISUUSVAKUUTUS.****FIN**Me, LARZEP, S.A.  
Osoite: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Vakuutamme yksinomaan omalla vastuullamme, että seuraavat tuotteet, joihin tämä vakuutus liittyy, ovat seuraavien Direktiivien vaatimusten mukaisia: 2006/42/EC

**VERKLARINGVAN OVEREENKOMST.****NL**Wij, LARZEP, S.A.  
Adres: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Verklaren geheel onder eigen verantwoordelijkheid dat de volgende producten, waarop deze verklaring heeft in overeenstemming zijn met de bepalingen van Richtlijn: 2006/42/EC

**FÖRSÄKRAN OM ÖVERENSSTÄMMELSE****S**Vi, LARZEP, S.A.  
Adress: Avda. Urtiaga, 6  
48269 Mallabia SPAIN

Försäkrar under eget ansvar att följande produkter som omfattas av denna försäkrans är i överensstämmelse med villkoren i Direktiv: 2006/42/EC

**LARZEP, S.A.**

Nombre y firma, name and signature, nom et signature, namn och underskrift, nimi ja nimikirjoitus, navn og underskrift, name und underskrift, naam en handtekening, nome e assinatura, nome e firma.