



Manufacturing that meets your needs



Dead Weight up to 10 000 BAR



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Web site : www.aremeca-instrumentation.com et www.aremeca.fr

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Manufacturer : AREMECA - ZI Sud Rue Marc Seguin - 41100 VENDOME
Sales Manager : Mrs REGAL ou Technical Manager : Mr MOUTARDIER

Phone : +33 (0)2.54.80.79.30 - Fax : +33 (0)2.54.80.79.31 - mail : aremeca@wanadoo.fr - Web : www.aremeca-instrumentation.com ou www.aremeca.fr

Range of Dead Weight tester

The dead weight are designed to test, adjust and calibrate measuring instruments pressure compared with a set of weights.

Models : BH4 or BA4



(modèle présentée BA4-200B)

Dynamic visualization of the position of the piston
Automatic display of the generated pressure
Connection for the transfer of data
total traceability
stainless weight, piston tungsten/steel

Automatic Dead weight accuracy up to 0.005% rd

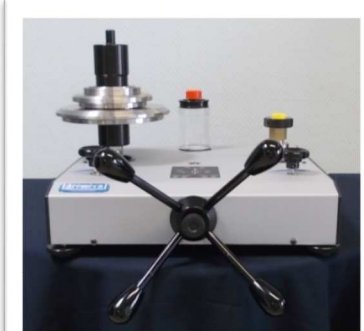
- ✓ models with Oil BH4 sp*
 - BH4-30B (EM 0.1 ->30 bar)
 - BH4-60B (EM 0.2 ->60 bar)
 - BH4-120B (EM 0.5 ->120 bar)
 - BH4-300B sp (EM 1 ->300 bar)
 - BH4-600B sp (EM 2 ->600 bar)
 - BH4-1200B sp (EM 2 ->1200 bar)
 - BH4-2000B (EM 40 ->2000 bar)
 - BH4-2500B (EM 40 ->2500 bar)
 - BH4-3000B (EM 40 ->3000 bar)
 - BH4-4000B (EM 40 ->4000 bar)
 - BH4-5000B (EM 40 ->5000 bar)
- ✓ models with Oil BH4 dp**
 - BH4-300B dp (EM 1 ->300 bar)
 - BH4-600B dp (EM 1 ->600 bar)
 - BH4-1200B dp (EM 1 ->1200 bar)
- ✓ models with Air BA4
 - BA4-60B (EM 0.5 ->60 bar)
 - BA4-120B (EM 1 ->120 bar)
 - BA4-200B (EM 2.5 ->200 bar)

other units are possible : PSI, Kg/cm² etc...

Very high performance integrating a calculator : with dynamic visualization of the position of the piston, with automatic display of the pressure generated by the dead weight according to the temperature, to the atmospheric pressure and to the hygrometry, with a connection for the transfer of the data on computer allowing a total traceability. This product is the essential tool for the calibration of high precision.

*sp : Simple piston **dp : dual piston

Models : BH2 or BA2



(modèle présentée BH2-300B)

Stable and reliable thanks to the motorization
very mobile - range high pressure
stainless weight, piston tungsten/steel

High performance Dead weight accuracy up to 0.01% rd

- ✓ models with Oil BH2 sp*
 - BH2-30B (EM 0.1 ->30 bar)
 - BH2-60B (EM 0.2 ->60 bar)
 - BH2-150B (EM 0.5 ->150 bar)
 - BH2-300B sp (EM 1 ->300 bar)
 - BH2-600B sp (EM 2 ->600 bar)
 - BH2-1200B sp (EM 2 ->1200 bar)
 - BH2-2000B (EM 40 ->2000 bar)
 - BH2-2500B (EM 40 ->2500 bar)
 - BH2-3000B (EM 40 ->3000 bar)
 - BH2-4000B (EM 40 ->4000 bar)
 - BH2-5000B (EM 40 ->5000 bar)
 - BH2-6000B (EM 200 ->6000 bar)
 - BH2-7000B (EM 200 ->7000 bar)
- ✓ models with Oil BH2 dp**
 - BH2-300B dp (EM 1 ->300 bar)
 - BH2-600B dp (EM 1 ->600 bar)
 - BH2-1200B dp (EM 1 ->1200 bar)
- ✓ models with Air BA2
 - BA2-1B (EM 15 ->1000 mbar)
 - BA2-1VB (EM -15 ->900 mbar)
 - BA2-10B (EM 0.15 ->10 bar)
 - BA2-60B (EM 0.5 ->60 bar)
 - BA2-120B (EM 1 ->120 bar)
 - BA2-200B (EM 2.5 ->200 bar)

High performance dead weight, easy of use, robust and design, they offer wide applications possibilities. Used for regular or intensive calibration.
The range BH2 or BA2 doesn't integrate the motorization and the visualization.
The range BH3 or BA3 integrates the motorization driving the weights in rotation with visualization of the position of the piston by indicator lights.

Our range BH2 are scalable ! :

- Range BH3 = BH2 + option OP0004 : addition of motorization and visualization
- Range BH4 (with accuracy up to 0.01%) = BH2 + option OP0301 : addition of motorization and visualization + sensors and calculator

Other options available :
COFRAC calibration, skydroll adaptation etc..

*sp : Simple piston **dp : dual piston
other units are possible : PSI, Kg/cm² etc...

Models : BH3 or BA3



(modèle présentée BH2-150B)

High pressure Dead weight accuracy up to 0.05% rd

- ✓ models with Oil
 - BH5-10000B (EM 200 ->10 000 bar)

Unique dead weight in the world 10000 bar !

This primary standard is the only calibration device on the market that is capable of generating 10000 bar of pressure with such as small amount of weight

Models : BH1 or BA1



(modèle présenté BH1-60B)

weight and piston steel

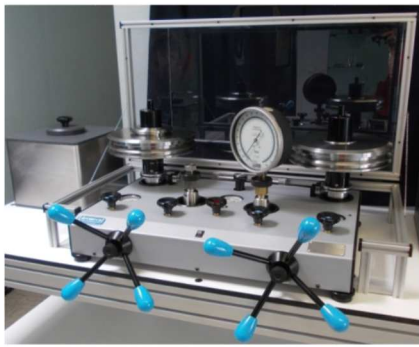
Standards Dead weight accuracy class 0.1% rd

- ✓ models with Oil BH1
BH1-1200B (EM 5 ->1200 bar)

Standard dead weight, these devices allow simple and reliable calibration. For the punctual calibration

Simple piston only
other units are possible : PSI etc...

Types (Models) : BDH3 or BDA3
Design workstation



(modèle présenté BDA3-200B)

Visualization dynamics of the piston position
Motorization, stainless weights, steel piston

Differential Dead weight

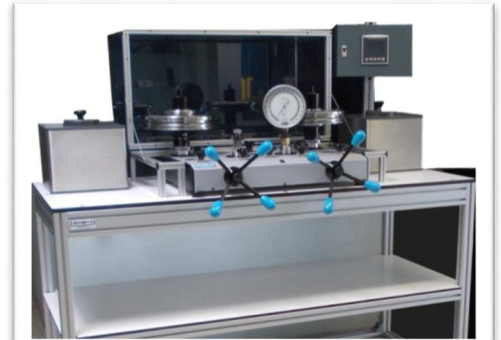
Differential dead weight are the reference instruments in the measurement of the pressures their accuracy and long term stability. Manufactured with high quality materials, these devices are highly accurate.

A BENEFIT OF A QUALITY !

We can demand offer a very wide range and design the entire desktop according to your specifications.

✓ with OIL
Consult us !

✓ with AIR
Consult us !



Types (Models) : BB2



(modèle présenté BB2-4B)

Ceramic ball
Stainless weights

Ball Dead weight accuracy 10^{-4}

- ✓ with AIR
Sales stopped

The ball dead weight is an ideal model to test the low pressure precision devices such as gauges, pressure sensors, transmitters etc ..
It is provided with a flow regulator and connects quickly. Very easy to use, the balance and weight of game are integrated into a briefcase for travel on site.

Range of comparator

Comparator of benches of comparison are intended for the calibration compared with a standard of manometers, sensors or transmitters of pressure and pressostats. Simple and fast of implementation. Ergonomic and strong conception.

Models : CH2 / CO / CA2



very high pressure
any fluids

Hi-tech Comparator

- | | | |
|-------------------------------|----------------------------|---------------------------|
| ✓ models with Oil CH2 | ✓ models with Water CO | ✓ models with Air CA2 |
| CH2-125B (EM 0 ->125 bar) | CO-800B (EM 0 ->800 bar) | CA2-200B (EM 0 ->200 bar) |
| CH2-1250B (EM 0 ->1250 bar) | CO-1000B (EM 0 ->1000 bar) | |
| CH2-2000B (EM 0 ->2000 bar) | | |
| CH2-4000B (EM 0 ->4000 bar) | | |
| CH2-7000B (EM 0 ->7000 bar) | | |
| CH2-7000B (EM 0 ->7000 bar) | | |
| CH3-10000B (EM 0 ->10000 bar) | | |

Our comparator can become dead weight tester model BH2 or BH3

Models : CH1 / CA1



Big capacity

Standards Comparator until stock is exhausted

- | | |
|-----------------------------|---------------------------|
| ✓ models with Oil CH1 | ✓ models with Air CA1 |
| CH1-125B (EM 0 ->125 bar) | CA1-200B (EM 0 ->200 bar) |
| CH1-1250B (EM 0 ->1250 bar) | |

-> until stock is exhausted

Models : CEH / CEO



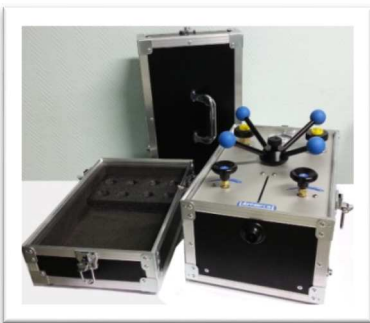
simple and strong product

Economics Comparators until stock is exhausted

- | | |
|-----------------------------|---------------------------|
| ✓ models with Oil CEH | ✓ models with Water CEO |
| CEH-800B (EM 0 ->800 bar) | CEO-700B (EM 0 ->700 bar) |
| CEH-1250B (EM 0 ->1250 bar) | |

-> until stock is exhausted

Models : CAA / CAO / CAH



handy and easy has to transport

Portable Comparator

- | | | |
|-----------------------|-------------------------|----------------------------|
| ✓ models with Oil CAH | ✓ models with Water CAO | ✓ models with Air CAA |
| | | CAA-20B (EM -0.9 ->20 bar) |

> + AREMECA

- Commercial and technical monitoring available and responsive,
- A wide range of devices and high-quality accessories,
- Possibility of a complete service offer: Installation, Commissioning etc
- Simple tariff includes: your device, its weight set and piston / cylinder

But also, benefits without extra ! :

- Your Dead weight designed according to standard gravity ($g = 9.80665 \text{ m/s}^2$) or your choice (specify when ordering).
- The ability to choose the unit of your standard set of weights (Bar, PSI, Kg / cm^2).

After sales Service all marks

Our technical department has a know-how of more than 30 years.
We put our expertise at your service to support your device in a reactive time.

Upon receipt of your dead weight tester or bench pressure, we carry out a complete expertise.
A quote is sent to you for approval.

Upon receipt of your order, we proceed to the after sales service

Send your equipment to : AREMECA - Zi Sud Rue marc Seguin - 41100 VENDOME
Accompanied by your contact information and a description of the problem

Calibration pressure Sensor or pressure gauge

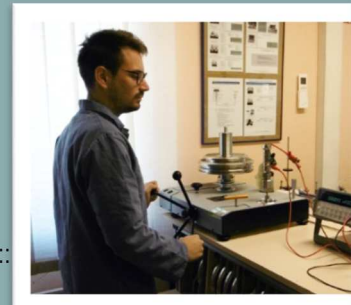
Our measurement laboratory offers a calibration service for your sensors or pressure gauges up to 5000 bar traceable to national stallions (connected COFRAC)

Oil DWT

* Etalon / standard : **H0001** -> BH2-1200B
Uncertainty of the pressure measured (in bar) :
 $\pm 5 \times 10^{-3} + (6 \times 10^{-5} \times P)$ with P in bar
* Etalon / standard : **H0002** -> BH3-60B
Uncertainty of the pressure measured (in bar) :
 $\pm 4 \times 10^{-4} + (8 \times 10^{-5} \times P)$ with P in bar
* Etalon / standard : **1235** -> BH3-5000B
Uncertainty of the pressure measured (in bar) :
 $\pm 2.7 \times 10^{-2} + (9.2 \times 10^{-5} \times P)$ with P in bar

Air DWT

* Etalon / standard : **A0004** -> BA3-10B
Uncertainty of the pressure measured (in bar) ::
 $\pm 9 \times 10^{-5} + (8 \times 10^{-5} \times P)$ with P in bar
* Etalon / standard : **A0007** -> BA4-200B
Uncertainty of the pressure measured (in bar) ::
 $\pm 7 \times 10^{-5} + (3.0 \times 10^{-5} \times P)$ with P in bar

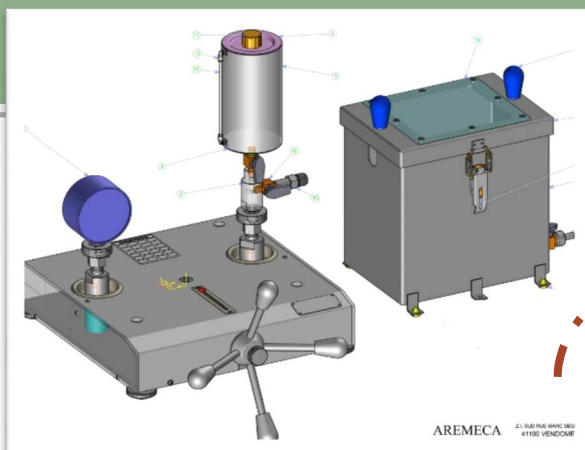


DESIGN / DEVELOPMENT of your workstation

Our design office works with all types of industries: AUTOMOBILE, AERONAUTICS, PETROCHEMISTRY, RAILWAY, PHARMACEUTICAL, COSMETIC, FOOD, ENERGY etc ...

We can study your needs to design your workstation.
All our products are scalable and can adapt to your needs

Do not hesitate to submit your problem / need, we will find a solution together !





Pressure Gauge models ADT 681

✓ ADT681 : precision 0.05% of EM - Temperature -10 to 50°C - dimension 110mm*85mm - connection M20*1.5 male

Ref. ADT681-1B : EM : 0 to 1 bar	Ref. ADT681-140B : EM : 0 to 140 bar
Ref. ADT681-7B : EM : 0 to 7 bar	Ref. ADT681-200B : EM : 0 to 200 bar
Ref. ADT681-20B : EM : 0 to 20 bar	Ref. ADT681-700B : EM : 0 to 700 bar
Ref. ADT681-70B : EM : 0 to 70 bar	

✓ ADT681b : precision 0.025% of EM - Temperature -10 to 50°C - dimension 110mm*85mm - connection M20*1.5 male

Ref. ADT681b-1B : EM : 0 to 1 bar	Ref. ADT681b-140B : EM : 0 to 140 bar
Ref. ADT681b-7B : EM : 0 to 7 bar	Ref. ADT681b-200B : EM : 0 to 200 bar
Ref. ADT681b-20B : EM : 0 to 20 bar	Ref. ADT681b-700B : EM : 0 to 700 bar
Ref. ADT681b-70B : EM : 0 to 70 bar	



Pressure gauge models ADT 672

✓ ADT672 : precision 0.05% of EM - Temperature -10 to 50°C - dimension 120mm*46mm - connection M20*1.5 male

Ref. ADT672-1B : EM : 0 to 1 bar	Ref. ADT672-700B : EM : 0 to 700 bar
Ref. ADT672-7B : EM : 0 to 7 bar	Ref. ADT672-1000B : EM : 0 to 1000 bar
Ref. ADT672-20B : EM : 0 to 20 bar	
Ref. ADT672-70B : EM : 0 to 70 bar	
Ref. ADT672-140B : EM : 0 to 140 bar	
Ref. ADT672-200B : EM : 0 to 200 bar	

✓ ADT672b : precision 0.025% of EM - Temperature -10 to 50°C - dimension 120mm*46mm - connection M20*1.5 male

Ref. ADT672b-1B : EM : 0 to 1 bar	Ref. ADT672b-140B : EM : 0 to 140 bar
Ref. ADT672b-7B : EM : 0 to 7 bar	Ref. ADT672b-200B : EM : 0 to 200 bar
Ref. ADT672b-20B : EM : 0 to 20 bar	Ref. ADT672b-700B : EM : 0 to 700 bar
Ref. ADT672b-70B : EM : 0 to 70 bar	



Pressure gauge models XP2i

✓ XP2i : precision 0 to 20% of EM $\pm 0.02\%$ of the full scale and 20% to 100% of EM $\pm 0.1\%$ of the value of reading - Temperature -10 to 50°C - dimension 115mm*36mm - connection M20*1.5 male

Ref. XP2i-1B : EM : 0 to 1 bar	Ref. XP2i-140B : EM : 0 to 140 bar
Ref. XP2i-2B : EM : 0 to 2 bar	Ref. XP2i-200B : EM : 0 to 200 bar
Ref. XP2i-7B : EM : 0 to 7 bar	Ref. XP2i-300B : EM : 0 to 300 bar
Ref. XP2i-20B : EM : 0 to 20 bar	Ref. XP2i-700B : EM : 0 to 700 bar
Ref. XP2i-30B : EM : 0 to 30 bar	Ref. XP2i-1000B : EM : 0 to 1000 bar
Ref. XP2i-70B : EM : 0 to 70 bar	



Pressure gauge models Barflex

✓ Barflex EA5 : precision 0.1% - Temperature -20 to 85°C - dimension 65mm*98mm *35mm - connection G1/2

Ref. BARFLEX-24B : EM : -1 to 24 bar	Ref. BARFLEX-600B : EM : 0 to 600 bar
Ref. BARFLEX-100B : EM : 0 to 100 bar	Ref. BARFLEX-1000B : EM : 0 to 1000 bar
Ref. BARFLEX-200B : EM : 0 to 200 bar	



Cylindrical connectors

✓ ref OP0174 : suitcase with 5 metrics connectors
Contains : M10 x 100 ; M12 x 150 ; M16 x 150 ; M18 x 150 ; M20 x 150

✓ ref OP0171 : suitcase with 4 Gas cylindrical connectors
Contains : G1/8 ; G1/4 ; G3/8 ; G1/2

Conical connectors

✓ ref OP0172 : suitcase with 4 connectors NPT
Contains : 1/8 NPT ; 1/4 NPT ; 3/8 NPT ; 1/2 NPT

✓ ref OP0173 : suitcase with 4 connectors BSP-TR
Contains : 1/8 BSP-TR ; 1/4 BSP-TR ; 3/8 BSP-TR ; 1/2 BSP-TR



✓ ref OP0037 : suitcase with 17 connectors below :

- Cylindrical connectors : M10 x 100 ; M12 x 150 ; M16 x 150 ;
M18 x 150 ; M20 x 150 ; G1/8 ; G1/4 ; G3/8 ; G1/2

- Conical connectors : 1/8 NPT ; 1/4 NPT ; 3/8 NPT ; 1/2 NPT ; 1/8 BSP-TR ; 1/4
BSP-TR ; 3/8 BSP-TR ; 1/2 BSP-TR



✓ ref OP0057 : Accessories case

1 set of manometer unions : 1/2 and 1/4 gas ; 1/2 and 1/4 NPT

+ 90° elbow union

+1 flat spanner

+1 assembly for assembly / disassembly of needles

+1 hammer



✓ Connector individually

All standards connectors are available individually – Ability connectors specifics request, please contact us



Hand pump

Model : **PM-20B**
Hand pump pneumatic

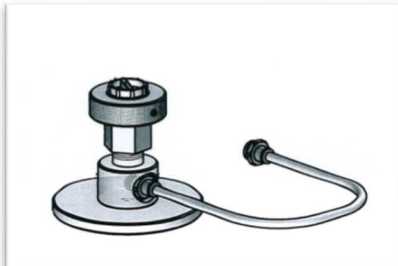
PM-40B -> -0,95 to 40 bar
PM-60B -> -0,95 to 60 bar
PM-700B -> 0 to 700 bar

✓ **Description**

The hand pump PM-20B is a simple tool that allows fast and robust verification of your meter up to 20 bars
This assessor mounts quickly, it's broad base provides stability and comfort. Delivered in a hard suitcase you can carry anywhere.



OP0180
support <1250 bar



OP0182
support <600 bar

The support can be only sold.

*There are two models : 600 Bar (ref. OP0182) or 1250 Bar (ref.OP0180)
- exit 1/8 gas conical.*



Ref. OP0158
Hand pump PM-700B

Model : **OP0158**
Hand pump (volume 327 cm³) until 700 bar

✓ **Description**

The hand pump OP0158 is an essential accessory to increase the volume of oil useful for calibration of your device. Design ultra lightweight and compact, with a reservoir filled nylon fiberglass and aluminum, this hand pump offers maximum resistance to corrosion and can contain a large oil capacity : 327 cm³. Maximum pressure 700 bar. It should be use with an comparator. Practical and ergonomic, it requires a little effort of pumping under the lever providing less fatigue for the user.



Model : **OP0025**
drain kit

✓ **Description**

The drain kit is useful to draw deposits and contaminated oils in your tank. This hand pump can quickly and easily clean your device.



Model : **OP0062**
Cleaning bench

✓ **Description**

This bench has been designed to prepare the instruments to be calibrated (cleaning, filling) before installation on calibration bench. The use of this bench will reduce significantly the risk of contamination of pressure generators and dead weight testers. This preparation bench is not suitable for any vacuum instruments.



Model : **OP0023**
Fluid separator

✓ **Description**

All fluid separator several advantages : insulated your device to be calibrated and so not to contaminate your bench – prevents emptying and cleaning of your device to calibrate if using another fluid than your bench – use up to 800 bar

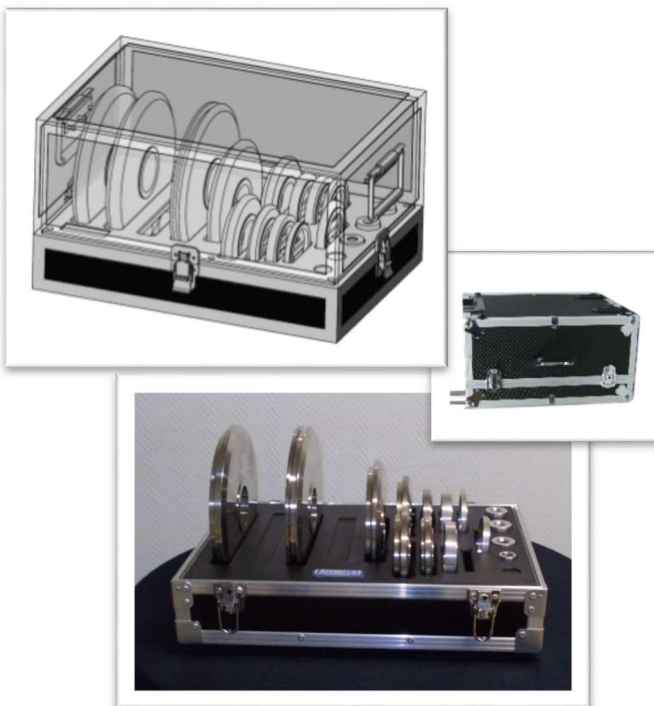


Model : **OP0101**

Metal Box for set of weight

✓ **Descriptif**

This box metal allows to transport easily your set of weigh. Dimensions reduce, sober design, this arrangement is completely adapted to tidy up and protect your masses.



Model : **OPxxxx**

Suitcase for shipping set of weight and ergonomics workstation

✓ **Descriptif**

These suitcases of modern and strong finishes were designed to optimize your user-friendliness.

Indeed, they serve on one hand to transport in complete safety your weighty, which is orderly vertically, isolating every weight so avoiding any friction or stripe during the shipping.

But the real key point is at the level of the bottom of the suitcase, because he allows the user to place set of weight at adequate height and to fit out very quickly his workstation. This ergonomics of post : facilitate the access and the grip of the masses, limits their handling, allows a visual control of the masses.



Model : **OP0002**

Suitcase for transport dead weight tester or generator

✓ **Descriptif**

Ideal to transport your dead weight or comparator in complete safety



Model : **OP0029**

Transport for generator type CEH ou CEO

✓ **Descriptif**

Ideal to transport your comparator in complete safety



Model : **OP0192 (without motorization) or OP0193 (with motorization)**

Crankcase for dead weight tester or generator

✓ **Descriptif**

Ideal to realize test points in a stable environment and protect your device.
This crankcase also allows to assure the safety of operator.



Model : **OP0222**

Tools for manometer

✓ **Descriptif**

This pear allows you to remove the needle from your gauge precisely



Model : **OP0223 or OP224 or OP225**

Needle up

✓ **Descriptif**

Different models depending on the size of your manometer
OP0223 for manometer Ø40 to 63
OP0224 for manometer Ø100 to 160
OP0225 for manometer duplex

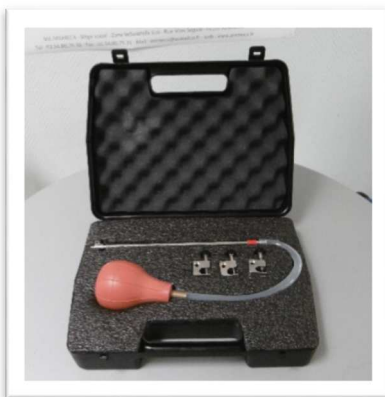


Model : **OP0226 or OP227**

Assembly pliers for manometer

✓ **Descriptif**

Different models depending on the size of your manometer
OP0226 for manometer Ø100
OP0227 for manometer Ø150



Model : **OP0228**

Suitcase with 3 needle up and pear

or



Model : **OP0125**

Tools for pressure gauge

Our partners : Our products are sold all over the world thanks to our distributors



To obtain the coordinates of the distributor closest to you Contact us !

Our primary objective is to provide excellent service, which is why we select our partners carefully.

Our requirements :

Proximity : to be able to meet with you on your site and better serve you, our specialists are near you !

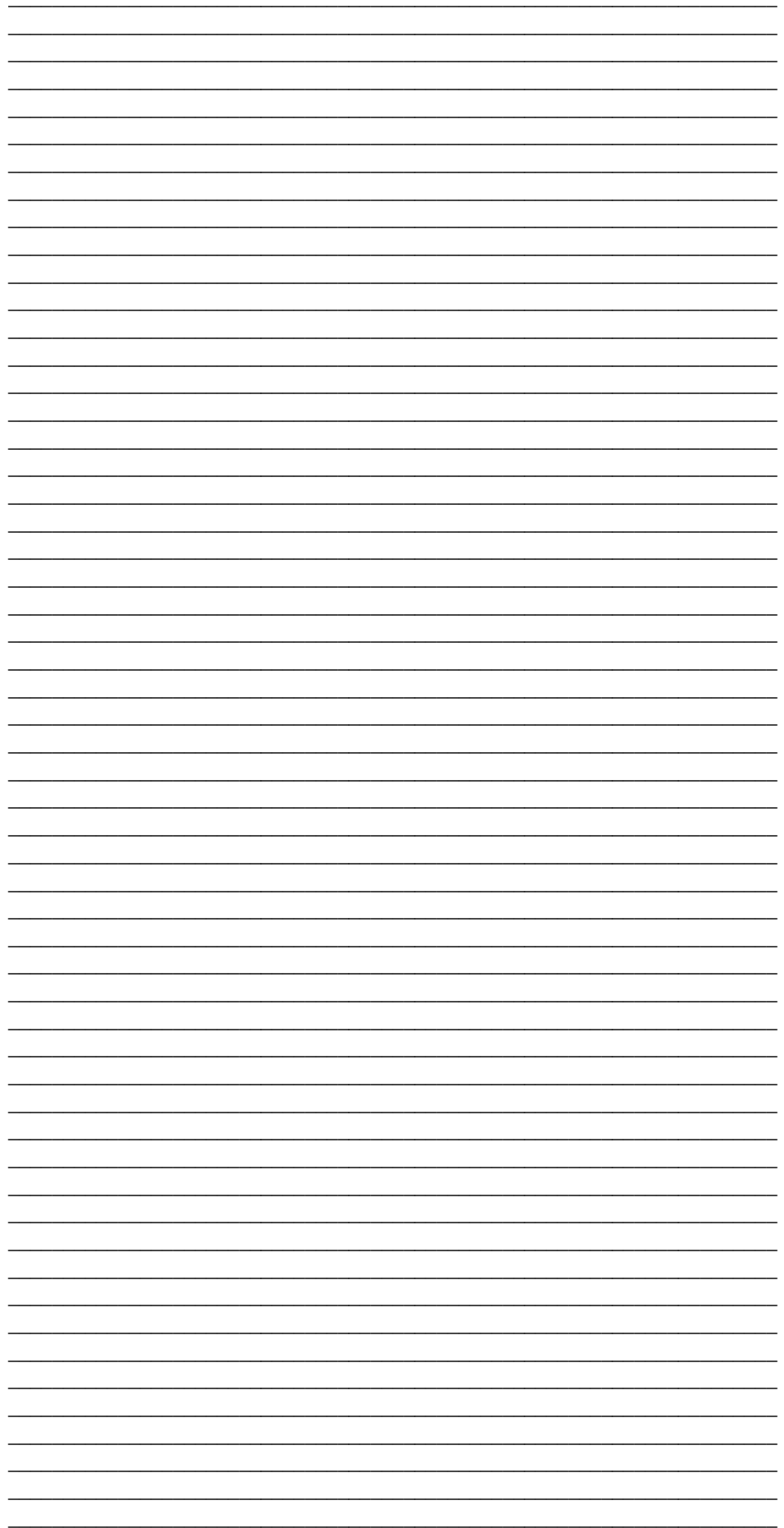
Technical knowledge : to understand your needs, take into account your technical requirements, offer the best solution partners are real specialist pressure instruments.

Quality / Service : We our utmost to ensure that our products are recognized for their quality and reliability. Listening to our customers, standards, the instrumentation market, we regularly up actions of research and development to optimize our products but also offer you new products offering new possibilities.

This is why it is important that our partners also offer you the best service. They can assist you in defining the specifications, in the selection of products in the installation / implementation, training of your technicians etc .. They also send us your comments, suggestions about our products and allow us to consider your expectations on the development of our range.

Reactivity : the relationship we have with our partners is a trust and lasting relationship. We support on technical issues, they offer many marketing and sales support, because we want them to be responsive and accurate in their technical solutions.

Want to become a partner ? contact us :



SAV any brands
(*Budenberg, Desgranges et Huot, Bourdon..*)

Certificat COFRAC ou DAkks

to consult us !!

Marketing & Sales Manager : Delphine REGAL

Mail : d.regal@aremeca.fr

Technical Manager : Frédéric MOUTARDIER

Mail : f.moutardier@aremeca.fr