sauermann®

KIMO®
INSTRUMENTS

POLAR TOUCH

Smart wireless manifold probes

www.kimo.fr

Made in France

The Future of HVACR

The digital manifold revolution

A career in HVACR requires the use of many tools. For many technicians working in the heating and air conditioning trade, this often means carrying around multiple instruments to complete different installation and servicing tasks.

In recent years, digital manifolds are becoming a lot more popular because readings can be done quickly and reliably without the need for manual calculations. With global demands for HVACR technicians expected to rise and regulations requiring closer monitoring of refrigerants, our Polar digital manifolds and vacuometers should be part of every installer's toolbox.

Our Polar line of digital manifold and vacuometer devices combine benefits that were previously only available to installers only when they utilised multiple instruments.

With an ergonomic design that is ideal for accessing tight or compact places, the devices are lighter than competitor models and offer all-in-one solutions that make it a valuable addition to installers.

NEW

Polar Manifold

The ultimate all-in-one solution

Polar Touch

Smart wireless manifold probes

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Polar Vac

Smart wireless vacuum probe

P. 6

Polar App

Mobile application

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Polar Clim/Ref

2-channel analog manifold

P. 10

NEW

Polar Touch

Smart wireless manifold probes

Bluetooth 4.2
up to 30 m

Kimo`s Polar Touch provides installers with an ergonomic tool that fits into tight and compact places, a Polar App with Bluetooth up to 30 meters, and the ability to take a number of important readings in an all-in-one device.

It includes two pressure probes that precisely measure high side and low side pressure (from -14 to 870 psi) and instantly display the condensation/ evaporation temperatures for up to 125 refrigerants on the Polar App, including new low global warming potential (GWP) and natural refrigerants.

Two temperature probes are used to accurately and simultaneously provide real-time superheat/ subcooling calculations on the Polar App during the refrigeration process.

A second connector allows for the charging and discharging of the refrigerant, and a built-in Schrader® core avoids leakages when you connect the hose.

Convenient design

Built-in Schrader® cores

Accurate measurement of high and low pressure

Supplied with calibration certificate

Measurement during charging

Real time superheat and subcooling calculations

Accurate measurements of high and low pressure

Two pressure probes make this possible and provide condensation/evaporation temperatures.

Measurement during charging

A second connection allows charging of the system, and the built-in Schrader® core prevents leaks during connection/disconnects.

Real time superheat and subcooling calculations

Two temperature probes used with the Polar App make this possible and eliminate the need for manual calculations.

Technical data

	Polar Touch 1
Measuring range	-14 to 870 psi (-1 to 60 bar)
Pressure sensing accuracy	±0.5% of full scale
Overload	943 psi (65 bar)
Burst pressure	2175 psi (150 bar)
Battery life	250 h
Protection	IP54

	Polar Touch 2
Measuring range	-40 to 302°F (-40 to 150°C)
Temperature accuracy	±2.4°F (1.3°C)
Temperature sensor	High accuracy NTC thermistor
Pipes diameter	0.2" to 1.7" (6 to 42 mm)
Cable	6 ft lenght
Protection	IP54

NEW

Polar Vac

Smart wireless vacuum probe

Kimo`s Polar Vac supports the quick, safe evacuation of refrigeration systems and heat pumps with highly accurate measurements.

It has an ergonomic design, an excellent Polar App with Bluetooth up to 30 m (nearly 100 ft) and a high-precision Pirani® sensor that provides highly accurate deep vacuum measurements and is designed to accurately and quickly measure vacuum levels from 25,000 to 5 micron in eight different scales (Micron, Pa, hPa, mbar, Torr, mmHg, inHg, inH_2O).

It also provides H_20 evaporation temperature on the Polar App in real-time.

A second connector allows for the discharging of the refrigerant, and a built-in Schrader® core avoids any gas leakages when you connect the hose.

Convenient design

Built-in Schrader® cores

Vacuum measurement during evacuation

Supplied with calibration certificate

High accuracy Pirani® sensor

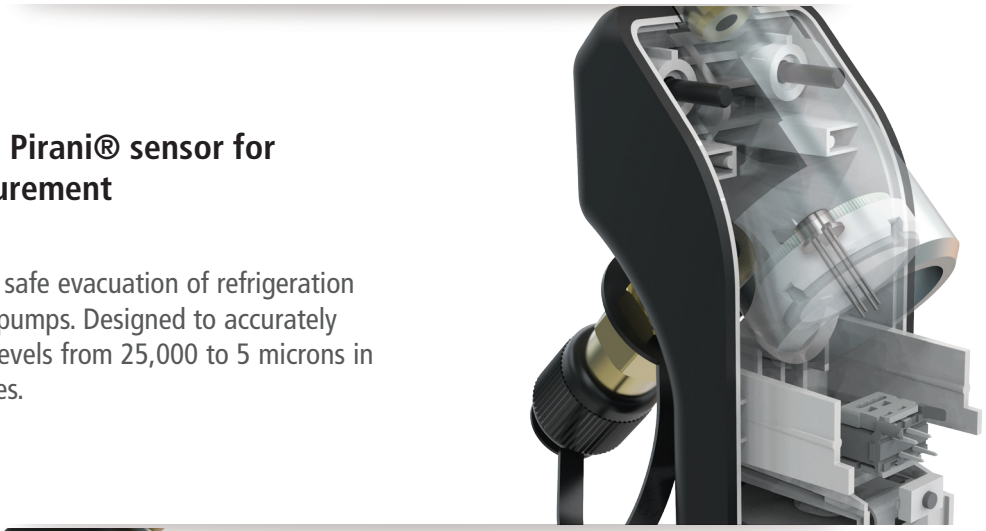
Bluetooth 4.2 up to 30 m

Impressive resolution

- 1 micron from 0 to 1000 microns
- 10 microns from 1000 to 2000 microns
- 100 microns from 2000 to 10,000 to microns
- 500 microns from 10,000 to 25,000 microns

High Precision Pirani® sensor for vacuum measurement

Enables the quick, safe evacuation of refrigeration systems and heat pumps. Designed to accurately measure vacuum levels from 25,000 to 5 microns in nine different scales.



Vacuum measurement during evacuation

A second connection allows flow through the probe and the built-in Schrader® core prevents leaks during connection/disconnects.

Technical data

	Polar Vac
Measuring range	5 to 25,000 microns
Pressure sensing accuracy	±10% of the measured value ±10 microns
Overload	145 psi (10 bar)
Burst pressure	400 psi (27.5 bar)
Battery life	250 h
Protection	IP54

Download Polar App

ANDROID APP ON Google play

Download on the App Store

Polar App

All-in-one mobile application

FREE app

The Polar App for iOS and Android provides Bluetooth technology up to 30 meters. It has the ability to store and update up to 125 refrigerants, including environmentally-friendly low global warming potential (GWP) and natural refrigerants.

Pressure, condensation/evaporation, pipe, and ambient temperatures are instantly provided on the Polar App, as are vacuometer measurements. Providing these measurements eliminates the need for manual calculations.

Bluetooth 4.2
up to 30 m

Stores up to
125 refrigerants

Gauge, table and
graphic visualisations

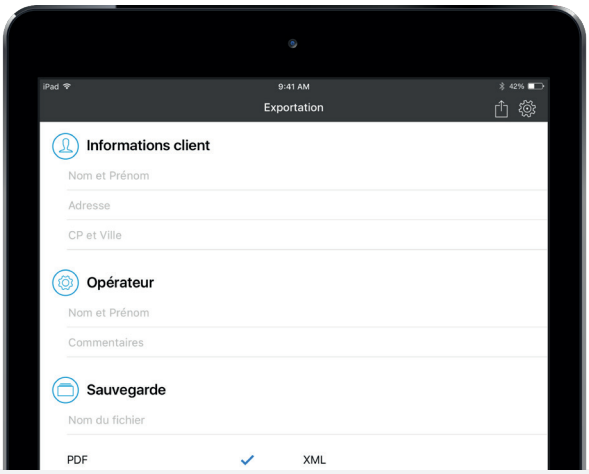
Report
exportation

Everything you need in one app

- Data logging
- Tightness test
- Pressure target settings
- Vacuum function
- Heating and cooling functions
- etc...

User friendly

Easy-to-read digital gauge, table and graphic visualisations.



Save and export

- Report exportation in PDF, CSV and XML formats that can be sent by email.
- Dataset can be saved and restarted. This function is very useful for long interventions.

Download Polar App

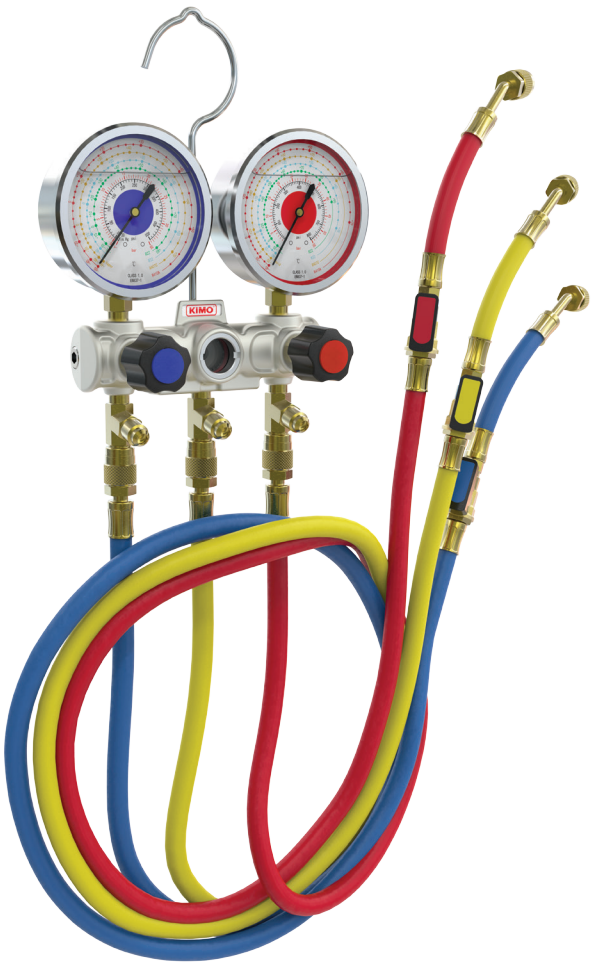
ANDROID APP ON Google play

Download on the App Store

NEW

Polar Clim/Ref

2-channel analog manifold



If you are looking for a classic analog manifold, look no further than the Kimo Polar Clim (air conditioning) and Polar Ref (refrigeration).

Built to offer extra durability, this analog manifold features a sturdy block made of anodized aluminum. The Manifold's low pressure and high pressure gauges feature 1% accuracy for an exact reading in critical charge systems.

It comes with three hoses and SAE connectors that join the analog manifold to the refrigeration system, including one with a sturdy Schrader® valve to perform refrigerant charging without any leakage inconvenience.

Liquid-filled gauges

Accuracy within 1% of the full scale

Ability to measure up to four gases

Technical data

	Polar Clim	Polar Ref
Models	Air conditioning	Refrigeration
Gases	R22 - R407C - R410A - R32	R404A - R134a - R407F - R407A
Range - low pressure	-30 inHg to 500 psi (-1 to 35 bar)	-30 inHg to 145 psi (-1 to 10 bar)
Range - high pressure	0 to 800 psi (0 to 55 bar)	0 to 430 psi (0 to 30 bar)
Connectors	3 x 1/4" MFL	3 x 1/4" MFL

Accessories

For Polar manifold range

R410 gas connector

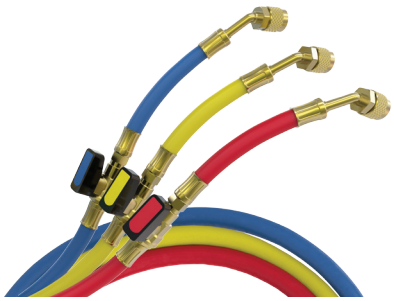
- Adaptation connector for R410 gas

Manifold body

- 2 or 4 channels
- 3 Y 1/4" MFL connectors

Manometers

- Ø80 mm class 1
- PRBP: -1 to 10 bar - R407F, R407A, R134a, R404A
- PRHP: 0 to 30 bar - R407F, R407A, R134a, R404A
- PCBP: -1 to 35 bar - R22, R407C, R410A, R32
- PCHP: 0 to 55 bar - R22, R407C, R410A, R32

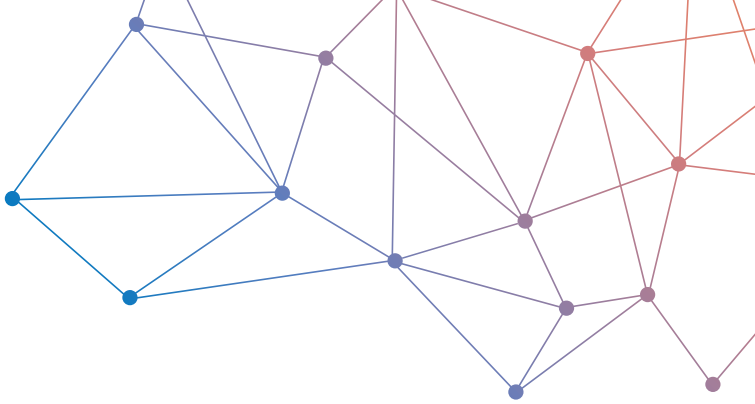


Flexible hoses

- Set of 3 flexible hoses
- 1 m length (39")
- With stop valves

Transport case

- For Polar Touch or Polar Clim/Ref



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