

THE NEW

# REFMATE

SIMPLY BETTER MEASUREMENTS

[www.refmate.ch](http://www.refmate.ch)





## THE NEW REFMAATE – PRECISE. SMART. INDISPENSABLE.

The name REFMAATE comes from the English word MATE [meət], meaning companion, buddy, the person helping you as you work. And that's exactly what the REFMAATE is – the best assistant at work you could imagine. Always accurate, always on hand, always ready to go, robust, versatile, easy to use.

## TYPICALLY SWISS

### A very precise all-rounder

Here in Switzerland, we're pretty good at certain things – quality, accuracy, reliability – making the REFIMATE truly Swiss.

The REFIMATE has been developed by professionals, for professionals. With state-of-the-art technology wherever high-tech means real improvement. And with tried-and-tested features if they have benefits in daily use. That's

why, instead of a touch display, the REFIMATE has sturdy, intuitive buttons and an easy-to-read colour display with an analogue pointer. It's practical too – the REFIMATE can be locked for long-term measurements on construction sites.



**PATENTED  
ANALOGUE DISPLAY  
WITH POINTERS**



**LARGE 4.3-INCH  
TFT COLOUR DISPLAY**



**SUPERHEAT AND  
SUBCOOL INDICATOR**



**INTUITIVE CONTROL  
VIA BUTTONS**



**HIGH PRECISION THANKS TO  
ACCURACY CLASS 0.5**



**FLEXIBLE POWER SOURCE  
(AA BATTERIES OR USB)**



**WIRELESS  
COMMUNICATION WITH APP  
AND OTHER DEVICES**



**LOCKABLE FOR  
LONG-TERM MEASUREMENTS**



# EVERYTHING AT A GLANCE

LET THE REFMATE  
SHOW YOU THE WAY



Flexible, durable, versatile:  
the REFMATE has all the features  
you need in the workplace.

The most important functions at  
a glance:

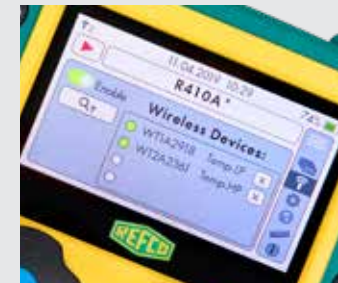
## WELL-STRUCTURED

The large colour display shows  
measured values in either  
analogue or digital format.  
The pointers react sensitively  
and in real time.



## COMMUNICATIVE

The REFMATE connects different  
peripheral and measuring  
devices with the REFMESH app.



## RECEPTIVE

Long-term logging data and  
maintenance activities are  
automatically stored in the  
REFMATE and documented in  
the REFMESH app.





## QUICK

Access the most relevant refrigerants by setting favourites.



## UP-TO-DATE

Regular software and refrigerant updates can be downloaded free of charge.



## PRECISE

The sensor's high level of accuracy is complemented by the compensation of the temperature measurement errors on the tube.



## ADAPTABLE

The display's screen settings can be easily adjusted depending on the light conditions and environmental factors.

## FULLY CONNECTED

### The REFRESH app - an IoT platform

Because everything is connected to everything, we've developed a new app called REFRESH. As an IoT platform, the software connects a large number of peripheral devices with the REFRESH.

Data can be stored in the REFRESH, in the app and in the cloud, and can be made available in various formats to other users or customers.



REFRESH App



## SPECIFICATIONS

| Property                                      | Value   |   |
|---|---|---|
| Pressure sensors                              | Pressure range  | -0.95 to 60 bar   |
|   | Max. working pressure   | 60 bar  |
|   | Max. overpressure   | 80 bar  |
|   | Accuracy  | ±0.5% (class 0.5)   |
|   | Units   | bar / psi / kPa / MPa / kg/cm <sup>2</sup>                  |
|   | Resolution  | 0.01bar / 0.5psi / 1kPa / 0.001MPa / 0.01kg/cm <sup>2</sup> |
| External temperature sensors                  | Temperature range   | -40°C to +125°C / -40°F to +257°F                           |
|   | Connector   | K-type  |
|   | Temperature accuracy  | +/- 1K  |
|   | Temperature units   | °C / °F   |
|   | Resolution  | 0.1°C / 0.1°F   |
| Temperature clamps                            | Temperature range   | -40°C to +125°C / -40°F to +257°F                           |
|   | Connector   | K-type  |
|   | Temperature accuracy  | +/- 1K  |
|   | Temperature units   | °C / °F   |
|   | Resolution  | 0.1°C / 0.1°F   |
|   | Tube diameters  | 6 mm to 38 mm / ¼" to 1 ½"                                  |
| Hose length                                   | 150 cm / 60" with or without CA valves                              |   |
| Ambient temperature                           | -20°C to +50°C / -4°F to +122°F                                     |   |
| Storage temperature                           | -20°C to +60°C / -4°F to +140°F                                     |   |
| Display                                       | 4.3" TFT colour display   |   |
| Power source                                  | 4 x 1.5 V AA/Mignon/LR6 or via USB                                  |   |
| Connectors                                    | REFMATE-2: 2 x 1/4", 1/4" vacuum / REFMATE-4: 3 x 1/4", 3/8" vacuum |   |
| Material                                      | Glass fibre-reinforced ABS, TPE, aluminium, brass                   |   |
| Dimensions of sturdy plastic case (H x W x D) | 530 x 360 x 100 mm  |   |
| Device dimensions (H x W x D)                 | REFMATE-2: 200 x 190 x 75 mm / REFMATE-4: 230 x 190 x 75 mm         |   |
| Weight  | REFMATE-2: 1.15 kg / REFMATE-4: 1.48 kg                             |   |
| Refrigerants and firmware                     | Easy to update via free REFMesh App                                 |   |
| Conformity                                    | CE / FCC / IC / RCM / RoHS / REACH                                  |   |



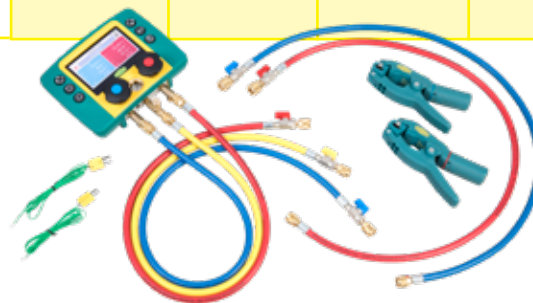
# VERSIONS

| Components                 | REFMATE-2           |               |                  |                   |
|----------------------------|---------------------|---------------|------------------|-------------------|
|                            | Standard<br>4688124 | CA<br>4688125 | CA-TC<br>4688126 | CA-WTC<br>4688127 |
| REFMATE-2                  | 1                   | 1             | 1                | 1                 |
| REFMATE-4                  |                     |               |                  |                   |
| Sturdy plastic case        | 1                   | 1             | 1                | 1                 |
| K-type temperature sensors | 2                   | 2             | 2                | 2                 |
| 5-piece hose set           | 1                   |               |                  |                   |

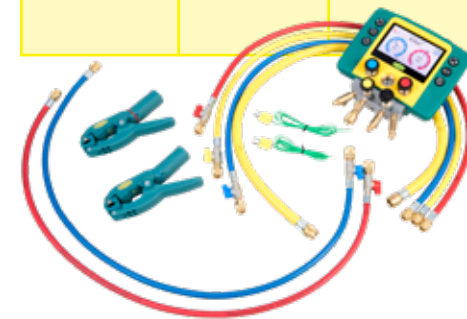
| Components                 | REFMATE-4           |               |                  |                   |
|----------------------------|---------------------|---------------|------------------|-------------------|
|                            | Standard<br>4688129 | CA<br>4688100 | CA-TC<br>4688130 | CA-WTC<br>4688131 |
| REFMATE-2                  |                     |               |                  |                   |
| REFMATE-4                  | 1                   | 1             | 1                | 1                 |
| Sturdy plastic case        | 1                   | 1             | 1                | 1                 |
| K-type temperature sensors | 2                   | 2             | 2                | 2                 |
| 5-piece hose set           | 1                   |               |                  |                   |

|                                 |  |   |   |   |
|---------------------------------|--|---|---|---|
| 5-piece hose set with CA valves |  | 1 | 1 | 1 |
| Special vacuum hose 3/8"        |  |   |   |   |
| Temperature clamps              |  |   | 2 |   |
| Wireless temperature clamps     |  |   |   | 2 |

|                                 |   |   |   |   |
|---------------------------------|---|---|---|---|
| 5-piece hose set with CA valves |   | 1 | 1 | 1 |
| Special vacuum hose 3/8"        | 1 | 1 | 1 | 1 |
| Temperature clamps              |   |   | 2 |   |
| Wireless temperature clamps     |   |   |   | 2 |



4688127



4688131

  
SWISSMADE



THE NEW

# REFIMATE

AVAILABLE FROM YOUR DEALER NOW

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REFIMATE-2



REFCO supports  
**OceanCare's** work  
to protect the  
habitat of polar  
bears.