HVAC/R
Service Products
**REFCO**

SWISS MADE

THE NEW

# REFMATE

## SIMPLY BETTER MEASUREMENTS

**www.refmate.ch**

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

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

**REFMATE-4**

# TYPICALLY SWISS

## A very precise all-rounder

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

The REFMATE 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 REFMATE has sturdy, intuitive buttons and an easy-to-read colour display with an analogue pointer. It's practical too – the REFMATE 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
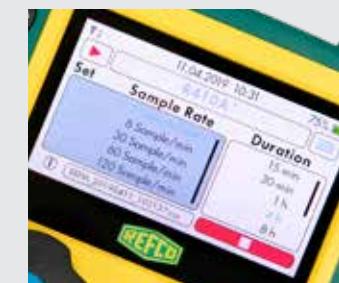
Long-term logging data and
maintenance activities are
automatically stored in the
REFMATE and documented in
the REFMESH app.

## QUICK

Access the most relevant refrigerants by setting favourites.

## UP-TO-DATE

Refrigerant and software updates can be carried out independently and 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 REFMESH app – an IoT platform

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

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

**REFMESH App**

**www.refmate.ch**

4 - 5

# 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$^2$ |
| | Resolution | 0.01bar / 0.5psi / 1kPa / 0.001MPa / 0.01kg/cm$^2$ |
| 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" |
| Charging hoses | | 3 charging hoses ¼"SAE (blue, red, yellow / 150 cm / 60 "), as well as 2 charging hoses ½"-20UNF (blue, red / 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 | | Over 50 in basic version. Easy update by means of free REFMESH App and computer |
| Conformity | | CE / FCC / IC / RCM / RoHS / REACH |

# VERSIONS

| Components | REFMATE-2 | | | | REFMATE-4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Standard 4688124 | CA 4688125 | CA-TC 4688126 | CA-WTC 4688127 | Standard 4688129 | CA 4688100 | CA-TC 4688130 | CA-WTC 4688131 |
| REFMATE-2 | 1 | 1 | 1 | 1 | | | | |
| REFMATE-4 | | | | | 1 | 1 | 1 | 1 |
| Sturdy plastic case | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| K-type temperature sensors | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5-piece hose set | 1 | | | | 1 | | | |
| 5-piece hose set with CA valves | | 1 | 1 | 1 | | 1 | 1 | 1 |
| Special vacuum hose 3/8" | | | | | | 1 | 1 | 1 |
| Temperature clamps | | | 2 | | | | 2 | |
| Wireless temperature clamps | | | | 2 | | | | 2 |



4688127



4688131

HVAC/R
Service Products
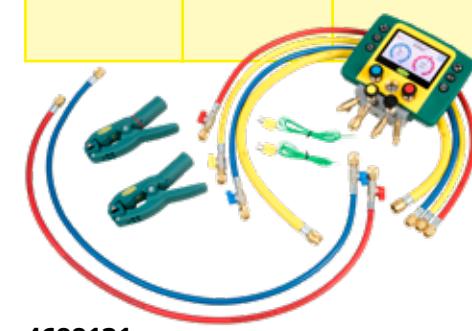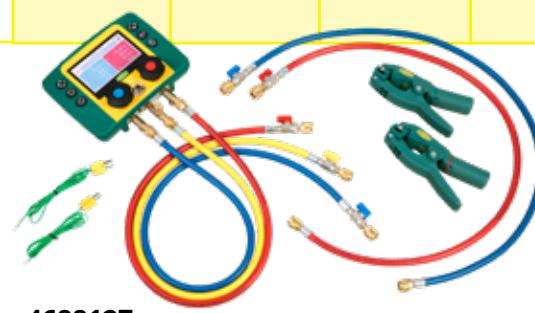
REFCO

**THE NEW**

# REFMATE

**AVAILABLE FROM YOUR DEALER NOW**

REFCO Manufacturing Ltd.

Industriestrasse 11

6285 Hitzkirch - Switzerland

Tel.: +41 41 919 72 82

Fax: +41 41 919 72 83

info@refco.ch

www.refco.ch

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

**REFMATE-2**