



## REFMATE-2

### Item Number 4688124

The REFMATE is the Digital Manifold for the professional refrigeration engineer. It communicates wirelessly with temperature clamps, pressure gauges, and the scale, and documents all measured values in the device during long-term measurements. All data can be interpreted and displayed via the app REF MESH. The latest refrigerant and firmware updates can be easily installed via PC.

- Patented analog display
- Large 4.3" TFT display
- Indication of superheating and subcooling
- Intuitive control via robust push buttons
- High precision with accuracy class 0.5
- Flexible power supply (AA batteries or USB)
- Wireless communication with REF MESH App and other devices
- All mechanical components are available as spare parts
- Lockable for long-term measurements

## Technical Data

<b>Material</b>	Aluminium   Brass   ABS   TPE
<b>Colour</b>	yellow (RAL 1023)   green (RAL 6026)
<b>Standards</b>	CE / FCC / IC / RCM / RoHS / REACH
<b>RoHS Conformity</b>	1
<b>RoHS Conformity</b>	Yes
<b>Number of Hoses</b>	5
<b>Sealing</b>	PTFE
<b>System Connection</b>	1/4" SAE   5/16" SAE or 1/2"-20 UNF   With core depressor
<b>Device Connection</b>	1/4" SAE
<b>Ball Valve</b>	No

<b>Refrigerant(s)</b>	R11   R113   R114   R12   R123   R124   R13   R13B1   R134a   R14   R22   R23   R32   R41   R125   R142b   R143a   R152A   R161   R170   R227ea   R236ea   R236fa   R245fa   R290   R401A   R401B   R401C   R402A   R402B   R403B   R404A   R406A   R407A   R407B   R407C   R407D   R407F   R407H   R408A   R409A   R410A   R411A   R412A   R414A   R413A   R414B   R416A   R417A   R420A   R421A   R422A   R422B   R422C   R422D   R424A   R426A   R427A   R434A   R437A   R438A   R442A   R444A   R444B   R445A   R448A   R449A   R449C   R450A   R452A   R452B   R453   R454A   R454B   R454C   R455A   R458A   R463A   R466A   R467A   R470A   R470B   R500   R502   R503   R507   R507A   R508A   R508B   R510A   R513A   R514   R514C   R600   R600a   R717   R718   R723   R744   R1270   R1234yf   R1233zd   R1234ze
<b>Accuracy Class</b>	0.5 (+/-0.5%)
<b>Gas Connection</b>	1/4" SAE
<b>Pressure Scale</b>	bar   psi   kPa   MPa   kg/cm <sup>2</sup>
<b>Number of Ways</b>	2-way
<b>Temperature Range</b>	-20 - 50 °C
<b>Storage Temperature Range</b>	-20 - 60 °C
<b>Pressure Range</b>	-0.95 - 60 bar
<b>Ingression Protection</b>	IP42
<b>Resolution</b>	0.001 bar, 0.5 psi, 1 kPa, 0.0001 MPa, 0.01 kg/cm <sup>2</sup>
<b>Battery</b>	4 x AA
<b>Operating Hours</b>	50 h at low operation
<b>Signal Range</b>	100 m
<b>Functions</b>	Superheat / Subcool, Digital / analogue display, Slave pointer, Pressure zeroing, Data logging, Tube error compensation, Refrigerant favorites Refrigerant update, Firmware update, Set pressure reference,

Field calibration,  
Unit and language settings,  
Display brightness,  
Wireless connections,  
Commissioning date,  
Printscreens

<b>Scope of Supply</b>	Batteries   Case   Instruction manual   5 Charging hoses   2 wired temperature sensors
<b>Packaging</b>	Sturdy plastic case
<b>Sensor Type</b>	K-type   Piezo Sensor
<b>Temperature Range</b>	-40 - +125 °C
<b>Temperature Units</b>	°C   °F
<b>Temperature Accuracy</b>	+/-1 K
<b>Temperature Resolution</b>	0.1 °C / 0.1 °F

## Accessories

4681466	K-TYPE-CLAMP TC	Clamp thermocouple for REFMATE and DIGIMON
4687785	WIRELESS-CLAMP WTC	Temperature clamp for REFMATE and TAP
4687412	HCL6-60-Y-N-1/4x1/4	Special suction and charging hose, yellow, 60"/150cm Inner diameter: 9.5mm (3/8"), connections: 2 x 1/4" SAE, without core depressor, with neoprene gaskets
4493622	CA-CCL-60	Set of 3 charging hoses with ball valve, 1/4" SAE, 60"/150 cm blue, red & yellow, 1x straight 1/4" SAE, 1x straight with ball valve 1/4" SAE and core depressor
4682519	CA-CCL-60-1/2"-20UNF	Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve

## Spare Parts

4687079	M2-7-SET-B+R	Replacement knobs
---------	--------------	-------------------

4687104	M2-10-95-R/2	Complete valve set, 2 pieces
4491018	M4-6-11	Sight glass assembly with 2 gaskets
4687951	A-31452-Y/3	Threaded Y-style, 3 pieces
4687785	WIRELESS- CLAMP WTC	Temperature clamp for REFMATE and TAP
4681394	K-TYPE-SENSOR	External temperature sensor for REFMATE and DIGIMON
4681466	K-TYPE-CLAMP TC	Clamp thermocouple for REFMATE and DIGIMON
9881276	CCL-60	Set of 3 charging hoses, 1/4"SAE, 60"/150 cm blue, red & yellow, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor
9881251	CL-60-B	Charging hose, blue, 1/4"SAE, 60"/150 cm 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor
9881260	CL-60-R	Charging hose, red, 1/4"SAE, 60"/150 cm 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor
9881269	CL-60-Y	Charging hose, yellow, 1/4"SAE, 60"/150 cm 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor
9884095	CCL-60-1/2"- 20UNF	Set of 3 charging hoses, R410A/R32, 60"/150 cm blue & red: 1x straight 1/4" SAE, 1x bended 1/2"-20UNF (5/16" SAE) with core depressor yellow: 1x straight 1/4" SAE, 1x bended 1/4" SAE with co
9884621	CL-60-B-1/2"- 20UNFx1/4"SAE	Charging hose, blue, R410A/R32, 60"/150 cm 1x straight 1/4" SAE, 1x bended 1/2"-20UNF (5/16" SAE) with core depressor
9884622	CL-60-R-1/2"- 20UNFx1/4"SAE	Charging hose, red, R410A/R32, 60"/150 cm 1x straight 1/4" SAE, 1x bended 1/2"-20UNF (5/16" SAE) with core depressor
9884623	CL-60-Y-1/2"- 20UNFx1/4"SAE	Charging hose, yellow, R410A/R32, 60"/150 cm 1x straight 1/4" SAE, 1x bended 1/2"-20UNF (5/16" SAE) with core depressor
4688082	REFMATE-CASE	Protection case for digital manifold REFMATE
4493169	M4-6-11-T	Key for manifold sight glasses
4687093	M4-6-04-R/4	Valve seat assemblies, 4 pieces
4662624	M4-6-04-R/10	Valve seat assemblies, 10 pieces