



REFMATE-2-BASIC

Item Number 4688297

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 REFMESH. 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 REFMESH App and other devices
- All mechanical components are available as spare parts
- Lockable for long-term measurements

Technical Data

| Material | Aluminium Brass ABS TPE |
|-----------------------------|--------------------------------------|
| Colour | yellow (RAL 1023) green (RAL 6026) |
| Standards | CE / FCC / IC / RCM / RoHS / REACH |
| RoHS Conformity | Yes |
| Accuracy Class | 0.5 (+/-0.5%) |
| Gas Connection | 1/4" SAE |
| Pressure Scale | bar psi kPa MPa kg/cm2 |
| Number of Ways | 2-way |
| Operating Temperature Range | -20 - 50 °C |
| Storage Temperature Range | -20 - 60 °C |
| | |

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| Ingression Protection Resolution 0.001 bar, 0.5 psi, 1 kPa, 0.0001 MPa, 0.01 kg/cm2 Battery 4 x AA Alternative Power Supply USB Mirco-B Operating Hours 50 h at low operation Signal Range 100 m Functions Superheat / Subcool, Digital / analogue display, Slave pointer, Pressure zeroing, Data logging, Tube error compensation, Refrigerant favorites Refrigerant typdate, Firmware update, Set pressure reference, Field calibration, Unit and language settings, Display brightness, Wireless connections, Commissioning date, Printscreens Scope of Supply 2 wired temperature sensors Batteries Instruction manual Case Calibration Certificate Packaging Sturdy plastic case K-type Piezo Sensor |
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| Temperature measuring range -40 - +125 °C |
| Temperature Units °C °F |
| Temperature Accuracy +/-1 K |
| Temperature Resolution 0.1 °C / 0.1 °F |

Accessories

| 4687785 WIRELESS-CLAMP Temperature clamp for REFMATE and TAP WTC | 4681466 | K-TYPE-CLAMP TC | Clamp thermocouple for REFMATE and DIGIMON |
|--|---------|-----------------|--|
| | 4687785 | | Temperature clamp for REFMATE and TAP |



| 4688587 CCL-60-A-38010 Set of 3 charging hoses with access control valve, 60"/150 cm blue and red with access control valve A-38010, 1/4" SAE, yellow 1/4" SAE with CA ball valve Set of 3 charging hoses with access control valve, 60"/150 cm blue and red with access control valve, 60"/150 cm blue and red with access control valve, 60"/150 cm blue and red with access control valve A-38410, 5/16" SAE, yellow 1/4" SAE with CA ball valve 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 4687668 CCL-60-N Set of 3 charging hoses, 1/4"SAE, 60"/150 cm blue, red & yellow, with neoprene gaskets, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor 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 4668533 CCL-60-CA Set of 3 charging hoses with ball valve, 1/4" SAE, 60"/150 cm blue, red & yellow, ball valve integrated in charging hose, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor 9884095 CCL-60-1/2"- 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 core depressor, yellow: 1x straight 1/4" SAE, 1x bended 1/4" SAE 4682519 CA-CCL-60-1/2"- Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve 4688477 VCL-60- 3/8"SAEx1/4"SAE Vacuum hose 3/8" SAE x 1/4" SAE, 60"/150 cm loner diameter: 9.5mm (3/8"), connections: 2 x 1/4" SAE, without core depressor, with neoprene gaskets | | | |
|---|---------|----------------|---|
| blue and red with access control valve A-38410, 5/16" SAE, yellow 1/4" SAE with CA ball valve 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 4687668 CCL-60-N Set of 3 charging hoses, 1/4"SAE, 60"/150 cm blue, red & yellow, with neoprene gaskets, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor 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 4668533 CCL-60-CA Set of 3 charging hoses with ball valve, 1/4" SAE, 60"/150 cm blue, red & yellow, ball valve integrated in charging hose, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor 9884095 CCL-60-1/2"- 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 core depressor, yellow: 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor, yellow: 1x straight 1/4" SAE, 1x bended 1/4" SAE 4682519 CA-CCL-60-1/2"- Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve 4688477 VCL-60- 3/8"SAEx1/4"SAE Vacuum hose 3/8" SAE x 1/4" SAE, 60"/150cm Figure 1.4" SAE, without | 4688587 | CCL-60-A-38010 | blue and red with access control valve A-38010, 1/4" SAE, |
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| yellow, with neoprene gaskets, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor 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 4668533 CCL-60-CA Set of 3 charging hoses with ball valve, 1/4" SAE, 60"/150 cm blue, red & yellow, ball valve integrated in charging hose, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor 9884095 CCL-60-1/2"- 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 core depressor, yellow: 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor, yellow: 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor, yellow: 1x straight 1/4" SAE, 1x bended 1/4" SAE 4682519 CA-CCL-60-1/2"- Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve 4688477 VCL-60- 3/8"SAEX1/4"SAE 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 | 9881276 | CCL-60 | yellow, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core |
| blue, red & yellow, 1x straight 1/4" SAE, 1x straight with ball valve 1/4" SAE and core depressor CCL-60-CA Set of 3 charging hoses with ball valve, 1/4" SAE, 60"/150 cm blue, red & yellow, ball valve integrated in charging hose, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor CCL-60-1/2"- 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 c CA-CCL-60-1/2"- Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve CA-CCL-60-1/2"- Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve VCL-60- 3/8"SAEx1/4"SAE Vacuum hose 3/8" SAE x 1/4" SAE, 60"/150cm Special suction and charging hose, yellow, 60"/150cm Inner diameter: 9.5mm (3/8"), connections: 2 x 1/4" SAE, without | 4687668 | CCL-60-N | yellow, with neoprene gaskets, 1x straight 1/4" SAE, 1x bended |
| blue, red & yellow, ball valve integrated in charging hose, 1x straight 1/4" SAE, 1x bended 1/4" SAE with core depressor CCL-60-1/2"- 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 c CA-CCL-60-1/2"- Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve CA-CCL-60-1/2"- Yourm hose 3/8" SAE x 1/4" SAE, 60"/150 cm VCL-60- 3/8"SAEx1/4"SAE HCL6-60-Y-N- 1/4x1/4 Special suction and charging hose, yellow, 60"/150 cm Inner diameter: 9.5mm (3/8"), connections: 2 x 1/4" SAE, without | 4493622 | CA-CCL-60 | blue, red & yellow, 1x straight 1/4" SAE, 1x straight with ball |
| 20UNF 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 c 4682519 CA-CCL-60-1/2"- Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve 4688477 VCL-60- Vacuum hose 3/8" SAE x 1/4" SAE, 60"/150cm 3/8"SAEx1/4"SAE 4687412 HCL6-60-Y-N- Special suction and charging hose, yellow, 60"/150cm Inner diameter: 9.5mm (3/8"), connections: 2 x 1/4" SAE, without | 4668533 | CCL-60-CA | blue, red & yellow, ball valve integrated in charging hose, 1x |
| yellow with ball valve VCL-60- 3/8"SAEx1/4"SAE Vacuum hose 3/8" SAE x 1/4" SAE, 60"/150cm 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 | 9884095 | · | 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 |
| 3/8"SAEx1/4"SAE HCL6-60-Y-N- Special suction and charging hose, yellow, 60"/150cm Inner diameter: 9.5mm (3/8"), connections: 2 x 1/4" SAE, without | 4682519 | · | |
| 1/4x1/4 diameter: 9.5mm (3/8"), connections: 2 x 1/4" SAE, without | 4688477 | | Vacuum hose 3/8" SAE x 1/4" SAE, 60"/150cm |
| | 4687412 | | diameter: 9.5mm (3/8"), connections: $2 \times 1/4$ " SAE, without |

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 | Temperature clamp for REFMATE and TAP |

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| | WTC | |
|---------|-----------------|---|
| 4681394 | K-TYPE-SENSOR | External temperature sensor for REFMATE and DIGIMON |
| 4681466 | K-TYPE-CLAMP TC | Clamp thermocouple for REFMATE and DIGIMON |
| 4687093 | M4-6-04-R/4 | Valve seat assemblies, 4 pieces |
| 4662624 | M4-6-04-R/10 | Valve seat assemblies, 10 pieces |
| 4493169 | M4-6-11-T | Sight glass removal tool |
| 4688082 | REFMATE-CASE | Protection case for digital manifold REFMATE |