



REFMATE-2-CA-TC

Item Number 4688126

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

| | |
|-------------------|---|
| Material | Aluminium Brass ABS TPE |
| Colour | yellow (RAL 1023) green (RAL 6026) |
| Standards | CE / FCC / IC / RCM / RoHS / REACH |
| RoHS Conformity | 1 |
| RoHS Conformity | Yes |
| Number of Hoses | 5 |
| Sealing | PTFE |
| System Connection | 1/4" SAE 5/16" SAE or 1/2"-20 UNF With core depressor |
| Device Connection | 1/4" SAE |
| Ball Valve | Yes |

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| Refrigerant(s) | R11 R12 R13 R13B1 R14 R22 R23 R32 R41 R113 R114 R123 R124 R125 R134a R142b 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 R413A R414B R416A R417A R420A R421A R422A R422B R422C R422D R424A R426A R427A R434A R437A R438A R442A R444A R445A R448A R449A R450A R452A R452B R453A R454A R454B R454C R455A R470A R470B R500 R502 R503 R507 R507A R508A R508B R513A R600 R600a R744 R1234yf R1233zd R1234ze R1270 |
| Accuracy Class | 0.5 (+/-0.5%) |
| Gas Connection | 1/4" SAE |
| Pressure Scale | bar psi kPa MPa kg/cm ² |
| Number of Ways | 2-way |
| Temperature Range | -20 - 50 °C |
| Storage Temperature Range | -20 - 60 °C |
| Pressure Range | -0.95 - 60 bar |
| Ingression Protection | IP42 |
| Resolution | 0.001 bar, 0.5 psi, 1 kPa, 0.0001 MPa, 0.01 kg/cm ² |
| 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 update, Firmware update, Set pressure reference, Field calibration, Unit and language settings, |

Display brightness,
Wireless connections,
Commissioning date,
Printscreens

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|-------------------------------|---|
| Scope of Supply | Batteries Case 5 Charging hoses with CA valve |
| Packaging | Sturdy plastic case |
| Sensor Type | K-type Piezo Sensor |
| Temperature Range | -40 - +125 °C |
| Temperature Units | °C °F |
| Temperature Accuracy | +/-1 K |
| Temperature Resolution | 0.1 °C / 0.1 °F |

Accessories

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|---------|---------------------|--|
| 4687785 | WIRELESS-CLAMP WTC | Temperature clamp for REFMATE and TAP |
| 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 |
| 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 |
| 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 |

Spare Parts

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|---------|--------------|-------------------------------------|
| 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 |

Acknowledged globally



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| 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 |
| 4682519 | CA-CCL-60-1/2"-20UNF | Set of 3 charging hoses, R410A/R32, 60"/150 cm blue, red & yellow with ball valve |
| 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 |
| 4492944 | CA-CL-60-B | Charging hose, blue, with ball valve, 1/4" SAE, 60"/150 cm 1x straight 1/4" SAE, 1x straight with ball valve 1/4" SAE and core depressor |
| 4492952 | CA-CL-60-R | Charging hose, red, with ball valve, 1/4" SAE, 60"/150 cm 1x straight 1/4" SAE, 1x straight with ball valve 1/4" SAE and core depressor |
| 4688082 | REFMATE-CASE | Protection case for digital manifold REFMATE |
| 4493169 | M4-6-11-T | Sight glass removal tool |
| 4687093 | M4-6-04-R/4 | Valve seat assemblies, 4 pieces |
| 4662624 | M4-6-04-R/10 | Valve seat assemblies, 10 pieces |