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REFMATE-4

Item Number 4688129

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 (US patent 9'448'140)
- 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	ABS Aluminium Brass TPE
Color	yellow (RAL 1023) green (RAL 6026)
Standards	CE / FCC / IC / RCM / RoHS / REACH
RoHS Conformity	1
RoHS Conformity	Yes
Number of Hoses	4
Length	60 "
Sealing	Neoprene
System Connection	1/4" SAE
Device connection	1/4" SAE 3/8" SAE



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Ball Valve	No
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 3/8" SAE
Pressure Scale	bar psi kPa MPa kg/cm ²
Number of Ways	4-way
Operating Temperature Range	-4 -122 °F
Storage Temperature Range	-4 -140 °F
Pressure Range	-14 - 870 psi
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	300 ft
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,



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	Printscreens
Scope of Supply	3 Charging hoses Vacuum hose 2 wired temperature sensors Calibration Certificate Batteries Instruction manual Case
Packaging	Sturdy plastic case
Sensor type	K-type Piezo Sensor
Temperature measuring range	-40 - 257 °F
Temperature Units	°C °F
Temperature Accuracy	+/-1 K
Temperature Resolution	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
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
4688596	CCL-60-A-38410	Set of 3 charging hoses 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
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-60-5/16"SAE	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

Spare Parts

4687094	M4-7-SET-B+N+R+Y	Replacement knobs blue, black, red, yellow
4687105	M2-10-95-R/4	Complete valve set, 4 pieces



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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
9884095	CCL-60-5/16"SAE	Set of 3 charging hoses, R410A/R32, 60"/150 cm blue & red: 1x straight 1/4" SAE, 1x bended 5/16"SAE (5/16"SAE) with core depressor, yellow: 1x straight 1/4" SAE, 1x bended 1/4" SAE with core
9881313	HCL6-60-Y	Large diameter hose 3/8", yellow, 60"/150 cm 2x 3/8" SAE female
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
4687995	REFMATE-HOOK	Replacement hook