



Premium Measurement Technology. Made in Germany

# MONTEC

## Digital Manifold



For installation and service in the field of refrigeration and air conditioning.



# MONTEC

uncompromising quality



## Developed for demanding applications in the field of refrigeration and air conditioning:

- Integrated, robust vacuum sensor
- All refrigerants, incl. A3, like Propane R290
- Strong battery for long-term measurements
- Bluetooth-accessories (temperature-clamp, external pressure sensor)
- App for unit- and accessories-control, softwareupdate and measuring protocol



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uncompromising quality

## Large 4" IPS-TFT graphic display for optimal readability, even in sunlight

- all measuring values at a glance
- clearly structured "Hot" and "Cold" indications in red and blue
- self-explanatory menu structure

Very large rechargeable battery for more than 20 h operating time at 100 % display brightness

Large unit memory for many measurements. Quite suitable for long-term measurements.

During long-term measurements the display switches off into the energy saving mode. A blinking LED informs well visibly about the units status.



Robust, fiberglass reinforced housing with protection class IP54

Industrial keyboard, also suitable for glove handling

Softgrip

Integrated vacuum sensor pressure resistant up to 60 bar

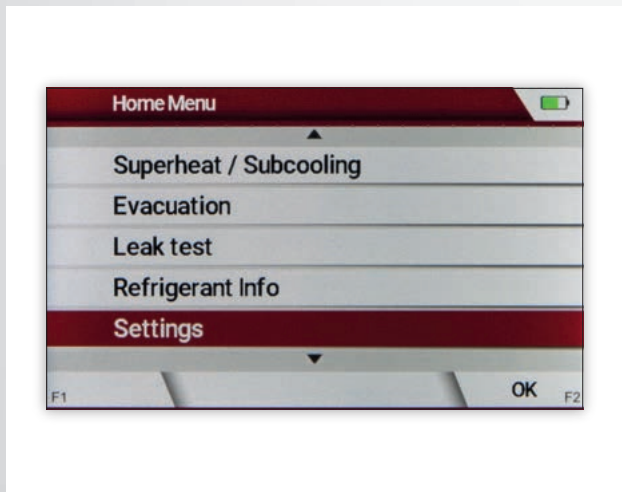
Sight glass made of genuine glass

Front area of the connection plate: Clear assignment of the 4 connections for hose parking

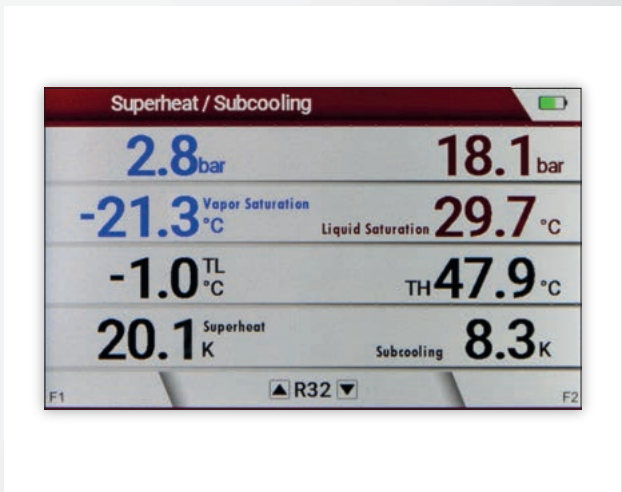
Rear area of the connection plate: Assignment of the 4 connections (3x filling hose + 1x vacuum hose)

# The unit in detail

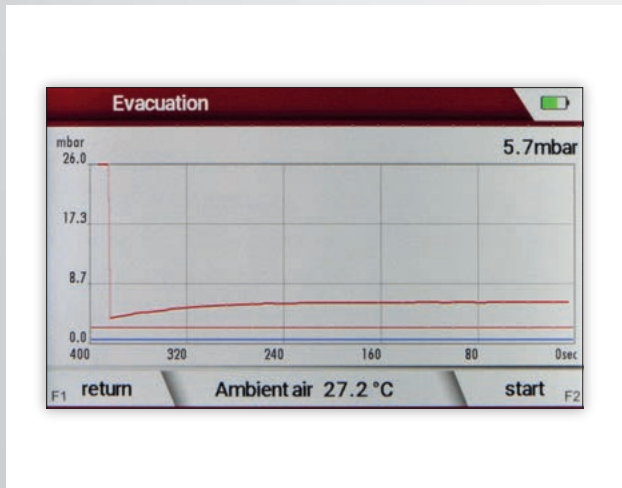
## Screenshots of typical display outputs



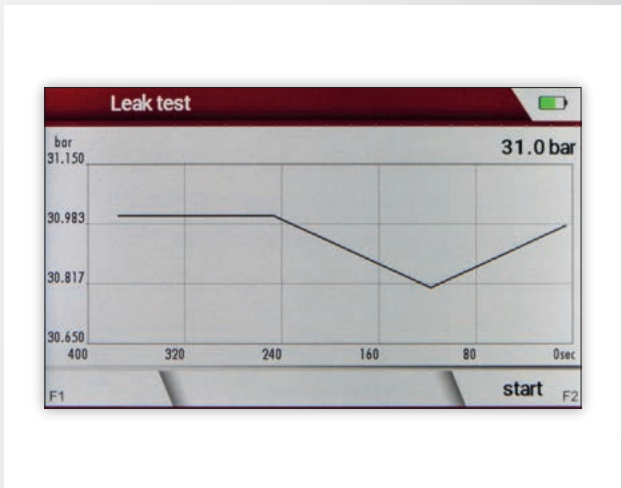
Clearly structured basic menu



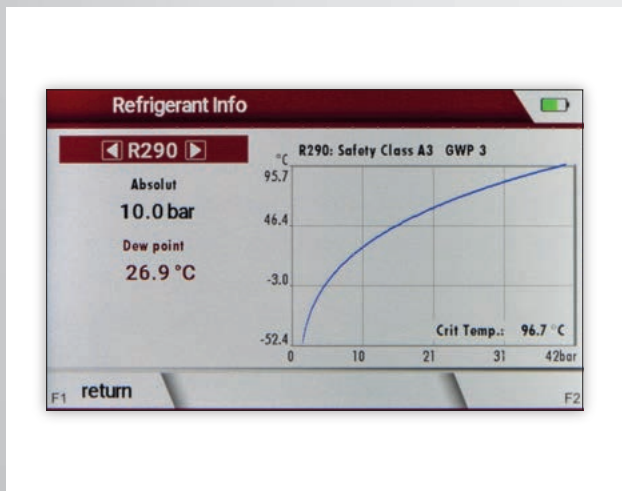
Up to 8 measuring values on one screen.  
All important values at a glance.



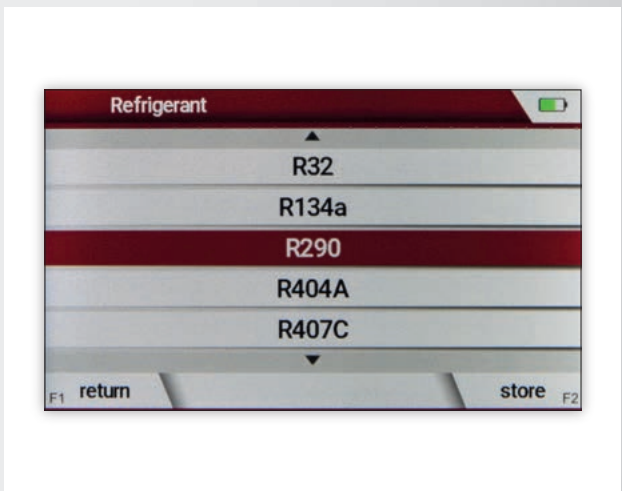
Measuring value evacuation, including graphical  
progression curve



Measuring value leak test, including graphical  
progression curve



Important information about refrigerants stored in unit



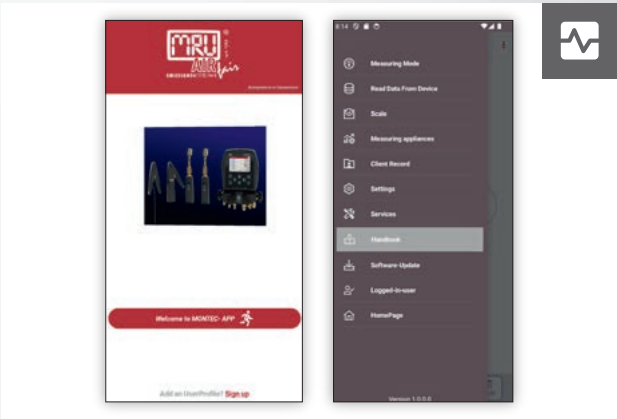
Large selection of refrigerants

# A concept overview



**High quality, robust valve block as well as hose connectors**

Separate areas for functional- and parking connections. Separate parking connections prevent soiling of the hose set.



**MRU App**

for refrigerant updates and measuring protocols



**Temperature clamps**

For measurments at metal- or plastic pipes, wired or wireless with Bluetooth-technology inAppor at MONTEC



**Refrigerant scale**

Capacity up to 100 kg and bottle bottoms up to Ø 250 mm



**Pressure transmitter**

With Bluetooth for wireless use, simple measurement of high- and low pressure, connection SAE 1/4"



**Modular transportation case**

With foam inserts for unit, accessories or scale, optional adapterplate for system „Sortimo LBOXX and Tanos Systainer“



# MONTEC

## Technical Data

Measured values	Measuring range	Accuracy
<b>Temperature measurement T1/ T2</b>	-40 ... 999 °C with thermo couple Typ K	±1° C or 0.5 % reading*
<b>Pressure</b>	1.00 ... 50.00 bar	±0,5 % reading* + 0.1bar
<b>Vacuum</b>	0 ... 26.00 mbar	±10% reading* + 0.010 mbar

Temperature clamp	Measuring range	Accuracy	Connections	Service life	Dimensions	Weight
<b>WLT</b>	40 ... +150° C	± 2°/0.5 %	2 x Typ K	160 h	38x145x90 mm	0.17 kg

Pressure transmitter	Measuring range	Accuracy	Connections	Service life	Dimensions	Weight
<b>WLP</b>	0 ... 50 bar	± 0.3 bar / 2 %	SAE 1/4" male	160 h	38x193x36 mm	0.28 kg

Refrigerant scale	Measuring range	Accuracy	Power supply	Housing	Dimensions	Weight
<b>Scale</b>	0 ... 100 kg	±(0.05 % V. MW + 10 g)	5 x 1.5V AA for 80 h	Aluminium	280x75x280 mm	3.17 kg

General Technical Data	
<b>Operating temperature</b>	-20 ... +50 °C, max. 95 % RF, non condensing
<b>Storing temperature</b>	-20 ... +50 °C
<b>Data memory</b>	256 MB
<b>Interfaces</b>	USB.C, Bluetooth™, (Data transfer to Smartphone, Tablet or PC)
<b>Internal power supply</b>	Lithium-Ion, >20 h (100% brightness), up to 40 h at 50%, up to 150 h at display off
<b>External power supply</b>	Charger 100 ... 240 V AC / 5 V DC, 1.200 mA
<b>Connections</b>	Valve block: 7 mm, Port SAE 3/8": 7 mm, Port SAE 1/4": 5 mm
<b>Weight</b>	appr. 1.75 kg
<b>Dimensions</b>	(W x H x D) 190 x 208 x 89 mm
<b>Housing</b>	PA6GF30, IP 54
<b>Refrigerants</b>	R12, R22, R32, R134a, R290, R404a, R407c, R407f, R410a, R417a, R448a, R449a, R452a, R502, R507, R513a, R600a,

Data subject to change without notice | \*which ever is larger



**MRU – Competence in gas analysis. Since 1984.**



**MRU · Messgeraete fuer Rauchgase  
und Umweltschutz GmbH**

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