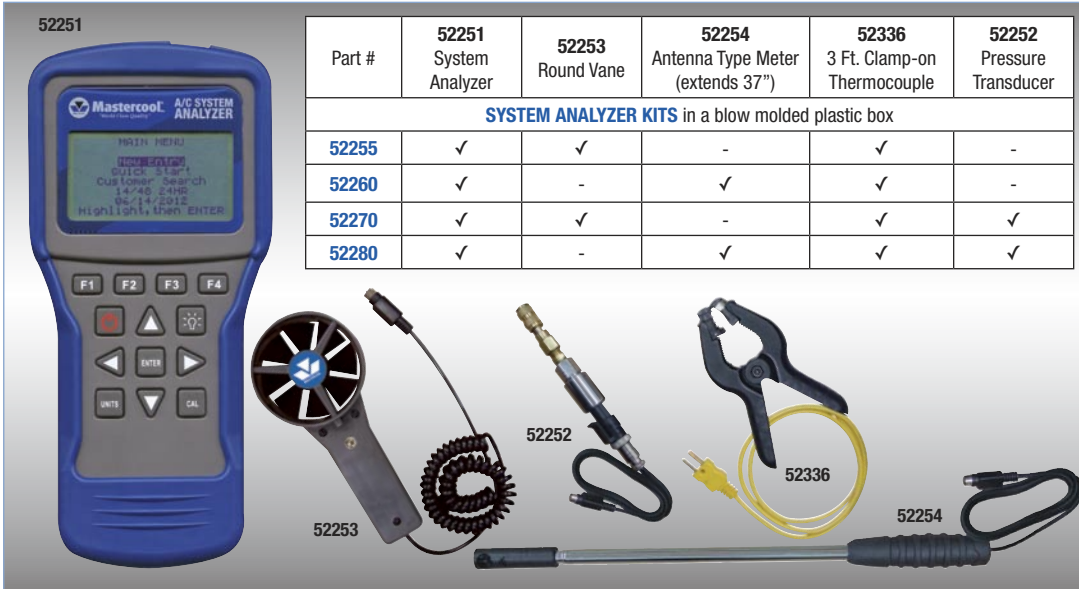




## Complete A/C System Diagnostic Tool



Part #	52251 System Analyzer	52253 Round Vane	52254 Antenna Type Meter (extends 37")	52336 3 Ft. Clamp-on Thermocouple	52252 Pressure Transducer
<b>SYSTEM ANALYZER KITS</b> in a blow molded plastic box					
52255	✓	✓	-	✓	-
52260	✓	-	✓	✓	-
52270	✓	✓	-	✓	✓
52280	✓	-	✓	✓	✓

### FEATURES:

- Calculates actual superheat and subcool temperatures for the following refrigerants: R22, R114, R123, R124, R134a, R141, R142, R401A, R401B, R404A, R407A, R407B, R407C, R407D, R408A, R409A, R410A, R411A, R411B, R414A, R414B, R417A, R507A
- Provides all the functions of a high-end anemometer: airflow volume, air velocity, dry bulb temperature, wet bulb temperature, relative humidity and dew point
- Save results and download in Excel format for future use
- Optional Pressure Transducer for direct system readings
- Optional Antenna Type Meter for any hard to reach locations

### SPECIFICATIONS:

- Operating Temperature: 0 to 50°C (32 to 122°F), humidity <80%
- Storage Temperature: -20 to 50°C (-4 to 122°F), humidity <90%
- Dimensions with boot: 191mm x 93mm x 41mm
- Weight: (meter w/ batteries & round vane) 500g
- Temperature Display: °F and °C
- Pressure Display: PSI and Bar
- Backlit LCD Display
- Low battery indicator
- K-type thermocouple connection
- USB connection
- 6 AA batteries

### ACCESSORY SPECIFICATIONS:

#### ROUND VANE (52253):

- Temp. Range/Resolution/Accuracy:**
- 20 to 60°C (-4 to 140°F)
  - 0.1°C (0.2°F)
  - ±0.6°C (1.1°F) (-20 to 50°C (-4 to 122°F)), ±1.2°C (2.2°F) at other range
- Humidity Range/Resolution/Accuracy:**
- 0.1% to 99.9% RH
  - 0.1% RH
  - ±3% RH (at 25°C (77°F), 10 to 90% RH), ±5% RH at other range
- Windspeed Range/Resolution/Accuracy:**
- 0.6 to 32 m/s
  - 0.1 m/s
  - ±2% of full scale

#### ANTENNA TYPE METER (52254):

- Temp. Range/Resolution/Accuracy:**
- 20 to 60°C (-4 to 140°F)
  - 0.1°C (0.2°F)
  - ±0.6°C (1.1°F) (-20 to 50°C (-4 to 122°F)), ±1.2°C (2.2°F) at other range
- Humidity Range/Resolution/Accuracy:**
- 0.1% to 99.9% RH
  - 0.1% RH
  - ±3% RH (at 25°C (77°F), 10 to 90% RH), ±5% RH at other range
- Windspeed Range/Resolution/Accuracy:**
- 0.5 to 25 m/s
  - 0.1 m/s
  - ±2% of reading +0.3 m/s

#### PRESSURE TRANSDUCER (52252):

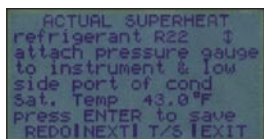
- Operating Pressure Range: 0-750 psi (0-52 bar)
- 1/4FL Swivel nut connection
- Accuracy: ±0.5, ±1% F.S.
- Operating Temperature: -40 to 100°C (-40 to 212°F)

#### CLAMP-ON THERMOCOUPLE (52336):

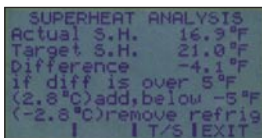
- Temp. Range/Resolution**
- 40 to 121°C (-40 to 250°F)
  - 0.1°C (0.2°F)

Mastercool's new A/C System Analyzer is an all-in-one tool that not only calculates critical information for the air conditioning system but also diagnoses basic system problems. The LCD display leads the technician through basic tests making service quicker and less complicated. The A/C System Analyzer is able to calculate: Actual Superheat, Subcool, Target Superheat, Temperature Split, Dry Bulb, Wet Bulb, Relative Humidity, Dew Point, Air Velocity and Air Flow Volume.

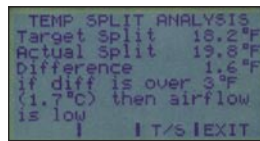
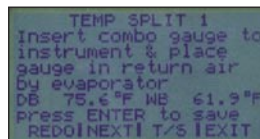
The A/C System Analyzer easily guides the technician in determining if the refrigerant charge is correct. No calculations or charts are needed. Easily save test results under a customer and technician name and even download the data for future reference.



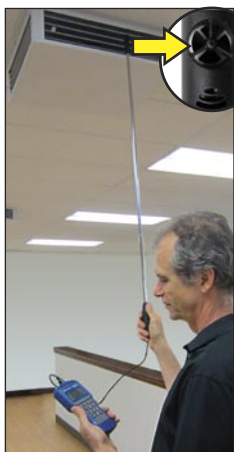
Pressure transducer and thermocouple will measure saturated temperature and actual temperature, to calculate actual superheat and subcool temperature.



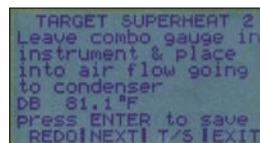
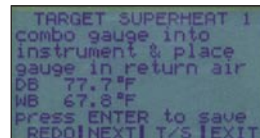
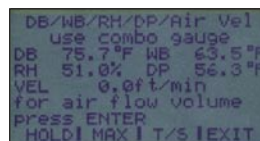
System will compare target and actual superheat.



Just two measurements with the probe will give the target temperature split and actual temperature split across the evaporator and compare the two.



Probe will measure dry bulb, wet bulb, relative humidity, dew point, air velocity and air volume.



Get target superheat temperature by following screen instructions for two simple measurements with the probe.