Refrigeration System Analyzer

AK900SC/AK900HC

Advanced, durable tool for the professional HVAC&R technician

A great deal of information lies hidden behind the vibrating needle of a typical pressure gauge. Is the TEV valve modulating properly, or is there liquid flooding back in the system?

Features:

- "Dynamic Offset" bar graph clearly shows modulation of control valves, system behavior and faults
- Dual temperature probes for automatic superheat and subcooling readings
- Max and min pressure monitoring for control set-up

TEST INSTRUMENTS"

- Auto zero key eliminates manual recalibration
- Detects vacuums in "Hg.
- Easy to read LCD screen with large digits
- Upgradable for additional refrigerants
- Green backlight for clarity and crisp character display in low light conditions.
- Splash resistant and wide temperature range for indoor & outdoor use; tough case with protective boot resistant to typical oils, acids and sun exposure
- One year limited warranty



Digi-Cool offers unprecedented diagnostic power with the Digital Refrigeration System Analyzer (AK900). The patented pressure bar graphs allow you to see pressure dynamics intuitively for quick diagnosis. Automatic saturation, subcooling and superheat readings mean no more wallet cards. Conceived by a technician with modern engineering, the unit will endure years of field use.

The new AK 900 features an integrated dual temperature probe to automatically calculate superheat and subcooling, and pressure extremes monitoring for simple pressure controls set-up, for even greater convenience during start-ups.

45 Pre-Programmed Refrigerant Profiles

R-12	R-245fa	R-407C	R-421A	R-428A
R-1234yf	R-290	R-408A	R-421B	R-434A
R-22	R-401A	R-409A	R-422A	R-437A
R-123	R-401B	R-410A	R-422B	R-438A
R-124	R-402A	R-413A	R-422C	R-500
R-134A	R-402B	R-414B	R-422D	R-502
R-236ea	R-404A	R-416A	R-424A	R-507
R-236fa	R-406A	R-417A	R-426A	R-508B
R-245ca	R-407A	R-420A	R-427A	R-600A



2-valve ball manifold included

2222 Verus Street Suite C San Diego CA 92154 USA Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012 Email: sales@calright.com http://www.calright.com

The Right Source For Your Test & Measurement Needs

AK900SC/AK900HC • Digital Refrigeration System Ana

HOW IT WORKS:

- Bar graph segments shows changes from digital reading

 Range of ±2psi on low-side, ±8psi on high-side
 In example below, low-side has dropped ½ psi to
 99.8 psig since update, high-side has increased 7psi to 440psig since update
- Digital readings have ¼ psi resolution on low side, 1 psi resolution on high side
- Temperature directly below low and high side pressures are the corresponding dew point and bubble point temperatures for the corresponding pressures respectively. (Saturation temperature for pure compounds)
- Temperature with derived superheat are listed below the low side pressure/temperature readings whereas the temperature and derived subcooling are listed below the high side temperature (eg 72°F sensor temp./41°F superheat and 71°F sensor temp./51°F subcool)
- dt is calculated temperature of low side (SH) sensor subtracted from high side(SC) sensor.
- R- \uparrow / \downarrow selects active refrigerant
- ZERO automatically calibrates to current atmospheric pressure
- UNIT changes between traditional (PSI, "Hg, °F) and SI (kPa, bar, °C) units
- 1SEC / 5SEC / HOLD changes the rate digits are updated
- LCD ↑ / ↓ changes contrast to fit lighting conditions
- MIN / MAX CLR resets peak pressure memory
- MODE selects temperature, superheat, subcooling, max pressure, or min pressure displays



SPEED, SIMPLICITY, PRECISION





Includes 2 Pipe Clamp Adapters (AKTS1140)

SPECIFICATIONS

ACCURACY: PRESSURE PORTS: WORKING PRESSURE: PROOF PRESSURE: BURST PRESSURE: TEMPERATURE SENSE: USAGE ENVIRONMENT: MOISTURE EXPOSURE: POWER SUPPLY: WEIGHT: 0.6% F.S. ± 1 least significant digit, calibration traceable to NIST 1/8" NPT supplied with swivel joints on manifold Low side: 0-200psia (1350 kPa) High side: 0-550psia (3000 kPa) Low side: 600psia (4100 kPa) High side: 1500psia (10300 kPa) Low side: 2000psia (13500 kPa) High side: 5000psia (34500 kPa) -40 to 250°F (-40 to 125°C), ±0.9°F (±0.5°C) between 32 to 158°F (0 to 70°C) Indoor/Outdoor AMBIENT TEMPERATURE: -4 to 122°F (-20 to 50°C) Dew, splash and rain resistant; do not immerse in water 9V Battery BATTERY LIFE: approx. 6 months under normal use DIMENSIONS: 7.3 x 4.9 x 2.7" (18.5 x 12.5 x 6.8cm) 1.6lb (740g)



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