

# Refrigeration System Analyzer



The YELLOW JACKET® Refrigeration System Analyzer (RSA) features a full color graphics display for intuitive, easy reading. The display reads in analog, digital or a combination of both, and monitors two pressures, two live temperatures, subcooling and superheat, and saturation temperatures (liquid and vapor) for nearly 100 NIST refrigerants.

- Identify refrigerant “favorites” for faster access
- Built-in pressure/temperature chart reference screen for all refrigerants
- Built-in full scale vacuum sensor reads deep vacuum down to 10 microns
- Dual K-Type temperature-compensated sensor ports allow for simultaneous suction and liquid readings
- High accuracy and resolution pressure transducers
- Provides real-time pressure data in selectable time increments: 0.1, 0.2, 0.5, 1 and 2 seconds
- Automatic superheat and subcooling calculations
- Corresponding bubble point and dew points for current high side and low side pressures, respectively
- Displays and records max/min pressures
- Data logging for onscreen review or USB export to PC to generate performance/Excel™ work reports
- Tracks and exports date and time, useful for data logging
- Elevation may be entered manually for accurate, automatic pressure compensation
- Press key in set-up menu to zero pressures
- Two-year warranty
- Made in the U.S.A.

Comes in a blow-molded carrying case complete with a TITAN™ 4-valve test and charging manifold, battery holder ('AA' Size, 2X4), instrument boot, bumper, plug, and sensor/probe boots, USB cable, vacuum sensor and two “K-Type” clamp probes.

## Specifications:

- Pressure sensing resolution (low and high sides): 0.1 psi, 0.01 bar, 1 kPa, 0.1 MPA, 0.01 kg/cm<sup>2</sup>
- Pressure sensing accuracy: 0.5% of full scale at 25°C  
1% of full scale at 55°F to 130°F  
2% of full scale -40°C to 120°C
- Working pressure (maximum measurable pressure):  
Low side: 0 - 350 psia  
High side: 0 - 700 psia
- Proof pressure (low and high sides): 1000 psi
- Burst pressure (low and high sides): 1500 psi
- Temperature display range: -100 to 600°F (-73 to 315°C)
- Temperature display resolution: 0.1°F or C°
- Temperature accuracy: ±1.8°F (±1°C)
- Vacuum display resolution:  
Shows two most significant digits in microns (25xxx-10xxx, 99xx-10xx, 99x-10x, 99-10)  
Other units are direct conversions from the micron value
- Vacuum accuracy: 20% of reading
- Operating temperature: -4 to 122°F (-20 to 50°C)
- Storage temperature: -20 to 170°F (-29 to 77°C)
- Dimensions: 8.3” wide x 6.7” tall x 3.6” deep (21 cm x 17 cm x 9 cm) excluding manifold
- Weight: 3.2 lb (1.45 kg) excluding manifold
- Power: AA batteries (8); alkaline, NiCd, NiMH, A-A Lithium, Li Ion, Li Pol (approximately 20 hours of continuous use with industrial alkaline batteries)

| UPC #             | Description  |
|-------------------|--|
| 40812             | RSA with TITAN™ 4-Valve Manifold   |
| 40813             | RSA with TITAN™ 4-Valve Manifold, 60” PLUS II Charging Hoses (RYB) with compact ball valve end, and 3/8” Str. fl. x 3/8” 45° (Y) |
| 40815             | RSA with TITAN™ 4-Valve Manifold and 60” PLUS II Charging Hoses (RYB)  |
| Replacement Parts |  |
| 40819             | Vacuum Sensor Cord (cord only)   |
| 40820             | Battery Holder, 'AA' Size, 2X4   |
| 40821             | Boot   |
| 40823             | Battery Door   |
| 40824             | Bumper, Plug, & Sensor/Probe Boots   |
| 40827             | USB cable  |
| 40828             | General Purpose Bead Type 10 ft. (3.05 m) Probe  |
| 69101             | Vacuum Sensor with Cord  |
| 69217             | 1-3/8” Clamp “K-Type” 10 ft. (3.05 m) Probe  |