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PRODUCT UPDATE March 2008



Newson Gale Inc.

Tanker-Truck **Grounding System** Protects Three Ways

The new code-compliant Earth-Rite RTR™ system from Newson Gale is based on triple technology to ensure safe static grounding during transfer of flammable products to or from a tanker truck.

Called TRI-Mode™ technology, the new system electronics confirms a positive connection between the truck and the RTR system and confirms a positive connection between the truck and ground, then constantly monitors both connections throughout the transfer process. Transfer cannot begin until all three modes have confirmed the safety of the connections and transfer will be interrupted should the system sense a connection resistance of more than 10 ohms.

Unlike conventional grounding apparatus, the Earth-Rite RTR system provides true failsafe grounding confirmation using patented intrinsically safe electronics and an universal ground clamp. Importantly, the assurance of a low-resistance connection specifically from truck to ground eliminates the bypassing of a grounding system by an accidental connection to the loading gantry or other metallic elements of the facility.



The system has been tested by independent examiners and has a Safety Integrity Level of SIL2 (according to IEC 61508). Code compliance includes FM and ATEX hazardous area approvals for gas, liquid vapor and dust environments while conforming to best practice guidelines of NFPA 77 and CENELEC 50504, ensuring that rubber-tire transport trucks are properly grounded before and during transfer of flammable liquids. Also, a RTR system can be mounted at remote loading stations and connected to local verified ground point, making significant savings possible in terms of both installation and maintenance costs.

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Kahn Optisure Hygrometer

An optical (chilled mirror) hygrometer for determining dewpoint using a fundamental measurement technology. The Optisure Hygrometer is a precision moisture-measuring instrument that can be used for critical process measurement and control applications or as a laboratory reference standard for calibration of other devices. The instrument has a dewpoint measurement range of -76° to $+104^{\circ}$, accuracy of $\pm 0.18^{\circ}\text{F}$ and an 85-265 VAC, 47-63 Hz universal power supply. An innovative frost assurance system eliminates any ambiguity in determining ice versus super-cooled water formation on the mirror, resulting in improved measurement capability, faster response time and more confidence in measurements. The built in SD card drive allows data logging without requiring a dedicated personal computer.

Testo 335 Combustion Analysis



The 335 combustion analyzer is engineered with field replaceable sensors to deliver highly accurate testing results quickly and reliably. It offers exceptional testing ranges, intuitive operation, and rugged portability that combine to deliver superior performance for the most demanding applications. Parameters: O_2 , CO , CO low , NO , NO low , NO_2 , SO_2 , CO_2 (calculated), EFF/ExAir, Pressure, Velocity, and Mass.

The Testo 335 features include, testing for applications with a modular probe & hose system that can be reconfigured in seconds. Click on the hose extensions to sample from about 25 feet away. Start-up with the probe-in-stack for greater convenience and safety. It can also test 18 fuels and 10 software enabled user defined fuels.

Instant information saves valuable time and the 335 has fast measurement response including numerous calculated parameters like, CO_2 , corrected NO_x , efficiency, excess air, dew point, and more. The "i" button diagnostics and alarms informs you of operational status (i.e. Battery, flow rate, water trap, etc.) so you can keep testing. Sensor output and calibration records can be displayed or printed for assured accuracy.

For greater testing flexibility, it can be pre-calibrated. Plug and play sensors eliminate cal gas in all but the most demanding applications - or simply field calibrate for the highest accuracy. Auto dilution expands CO to 50,000 ppm, plus optional NO expansion to 6,000 ppm. Or, simply install the low range sensors for critical measurements.

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