



## INSTRUMENTATION

### Touch Screen Improves Silo Level Measurement



The SOLO-L level measurement system monitors bulk materials in silos and eliminates the problems caused by material density, angle of repose, wave reflection, and dust clouds. Measurements are instantaneous and continuous. The SOLO-L is installed, operated, and calibrated via a touch-screen interface, and does not require conversion tables or calculations. It transmits readings via Ethernet or analog interface output to PCs, Android tablets, and phones; PC and Android phone software is included with purchase.

**Strain Systems, Inc.**

[www.strainsystems.com](http://www.strainsystems.com)

### Sensor Is Available in Immersion and Insertion Models



The OUSAF11 sensor measures the optical absorbance of a process fluid for detecting product loss, as well as determining suspended solids content and turbidity. It emits light in both

the visible and near-infrared regions, and determines absorption with an optical sensor. It is available in an immersion model for use in open tanks and basins, and an insertion model for installation in pipes. The body of the OUSAF11 is constructed of Type 316L stainless steel, and the measuring head

is constructed of fluorinated ethylene propylene (FEP) film. The sensor can be operated continuously at temperatures up to 194°F, and for two hours at temperatures up to 266°F.

**Endress+Hauser**

[www.us.endress.com](http://www.us.endress.com)

### Data Logger Simultaneously Measures CO<sub>2</sub>, Temperature, and Humidity



The Data Logger TR-76Ui-H is a three-channel recorder that measures and records CO<sub>2</sub> concentration, temperature, and humidity. Automatic atmospheric pressure adjustment ensures stable and accurate CO<sub>2</sub> measurements. It has a temperature measurement range of -30°C to 80°C; accuracy is ±0.3°C between 10°C and 40°C, and ±0.5°C at all other temperatures. The unit has a CO<sub>2</sub> range up to 9,999 ppm, and a humidity measurement range of 0–99%. Up to 8,000 data sets may be stored on the unit and downloaded to a PC via a USB connection. On a PC, data from all three channels can be simultaneously viewed in graph or table form.

**TandD Corp.**

[www.tandd.com](http://www.tandd.com)

## ENGINEERING SERVICES

### Specialists Provide Steam System Maintenance

The Steam System Asset Management Program brings together a team of fully trained and qualified steam

technology specialists for year-round steam system maintenance. The team surveys the plant and recommends opportunities to reduce energy losses, improve productivity, and address plant hygiene and safety shortcomings. Detailed system assessments and staff interviews are conducted in order to identify areas for improvement. This program brings expert service to refinery, petrochemical, and chemical facility steam systems.

**Spirax Sarco, Inc.**

[www.spiraxsarco.com/us](http://www.spiraxsarco.com/us)

### HEAT TRANSFER Portable Chiller Features Two-Phase Operation



Iceman SM Series high-efficiency chillers have Copeland Scroll digital compressors for variable capacity output. Two-phase operation ensures increased energy efficiency and tight control of the refrigeration circuit. Compressors are available with environmentally friendly refrigerants and fluid operating temperatures of 20°F–65°F. The portable chillers have insulated, nonferrous piping and components, and microprocessor-based electronic controllers. Heavy-duty insulated tanks and stainless steel centrifugal supply pumps ensure long life. The chillers have a NEMA-rated electrical enclosure and meet NFPA 79 electrical safety standards.

**Mokon**

[www.mokon.com](http://www.mokon.com)

## FLUIDS AND SOLIDS HANDLING

## Diaphragm Pump Motor Delivers High Performance in a Small Package



The Type BL30 brushless DC motor is available for integration into a wide range of liquid and gas diaphragm pumps. This small motor is designed to fit into standard compressor housings, and has an outside diameter of only 32 mm. It provides protection against harsh conditions (such as dust, dirt, and water splashing), reverse polarity, over-voltage, and overheating. The BL30 is available in 12-V and 24-V versions, with a 2-wire or 4-wire power input, tachometer output, and speed control signal input.

**KNF Neuberger, Inc.**

[www.knfUSA.com](http://www.knfUSA.com)

## Separator Functions as Both a Dewatering Screener and a Clarifier



The Vibroscreen dewatering-clarifying screener separates solids from liquids on a batch or continuous basis. An imbalanced-weight gyratory motor affixed to the housing imparts vibration, which causes solid particles to move across the screen and exit

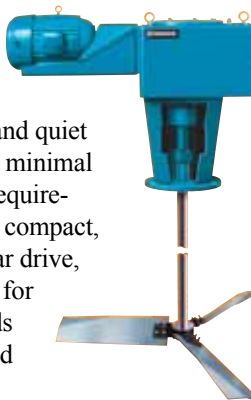
through a discharge spout while liquid flows through the screen. Nozzles above the screen spray continuously or on a timed cycle to prevent solids from binding to the screen. The unit functions as a dewatering screener to separate a small to medium percentage of liquid from a large percentage of solids, and as a clarifier to separate a small percentage of solids from a large percentage of liquids. It is offered in diameters from 18 to 100 in. with 4 to 12 spray wash nozzles.

**Kason Corp.**

[www.kason.com](http://www.kason.com)

## High-Performance Agitator Handles Demanding Environments

The HT turbine agitator combines high strength and quiet operation with minimal maintenance requirements. It has a compact, right-angle gear drive, and is suitable for blending, solids suspension, and gas dispersion applications. It is available with output speeds from 5 to 350 rpm in 13 standard drive sizes from 1 to over 1,000 hp. A wide variety of mountings, shaft seals, and impellers are also offered.



**Chemineer, Inc.**

[www.chemineer.com](http://www.chemineer.com)

## Dispensing Adaptor Safely Connects Containers to Pumps

The DrumQuik 3-Port universal dispensing adaptor (UDA) extracts chemicals from rigid containers with a reusable dip tube that can be moved from one



container to the next without messy drips or spills. It facilitates container-to-pump connection, which is a safer alternative than open connections for multiple chemical lines. The 3-Port UDA is suitable for use in both low-flow dosing and high-flow transfer applications. It is constructed of food-grade polypropylene, and has a 3/4-in. NPT threaded connection.

**Colder Products Co.**

[www.colder.com](http://www.colder.com)

## Automated Bulk Bag Conditioner Loosens Solidified Materials



The Block-Buster bulk bag conditioner has two hydraulic rams that press opposing sides of bulk bags and loosen material that has solidified during storage and shipment. It features a hydraulically actuated, variable-height turntable for automated bag rotation. The pressure of hydraulic ram actuations, the height of the turntable, and the degree of rotation are user-programmable. A cantilevered I-beam with a motorized hoist and trolley allows loading and unloading of bulk bags without the need for a forklift. The conditioner is enclosed for operator safety and has an interlock to stop operation when the doors are opened.

**Flexicon Corp.**

[www.flexicon.com](http://www.flexicon.com)