



MAN ES has released a new lubrication monitoring system

MAN lubrication monitoring system

The MAN Fluid Monitor for lube oil is a light system developed by MAN Energy Solutions (ES). It enables owners to monitor the degradation and contamination of lube oil and protect industrial assets. Used alongside laboratory analyses, it alerts operators with alarms and stop recommendations as soon as it detects a degradation in lube-oil quality revealing minor wear of mechanical parts.

Thanks to swift detection of anomalies, especially important during such sensitive engine phases such as restarts where 50% of damage occurs, this solution allows the operator to anticipate maintenance, protect major components, and identify part-wear before breakdown.

The fluid monitor has recorded over 18,000 test hours on pilot industrial sites, complies with industry standards and has been certified for marine applications. It has received its first order for third-party equipment in the Pacific region.

man-es.com

Linear position sensors

H. G. Schaevitz, Alliance Sensors Group released its PG Series LVDT linear position sensors, designed and engineered for valve position sensing applications for steam turbine control systems in electric power generation plants. Previously, these type of sensors were either designed by OEMs decades ago or were catalog LVDTs slightly modified for operation in steam turbines.

Key design features include: cores that cannot break loose; standard body clamps, flange mounts, ball joint couplings, and rod eye ends; two double contact shaft seals prevent contaminants from getting inside the LVDT's bore; and operation in ambient temperature up to 350°F.

alliancesensors.com



Progress on the path to net-zero carbon emissions

An AI-enabled software tool named BHC3 Production Optimization was announced at the Baker Hughes Annual Meeting

AI oil & gas software

BHC3 Production Optimization is an artificial intelligence (AI) software application from Baker Hughes that enables oil & gas production and facility engineers to visualize, analyze, and optimize upstream production operations.

Operators benefit from increased production volumes, quantified dependency scores of injection wells on production wells, more accurate well production reporting, and integrated tools to investigate and take action to prevent production losses.

The software leverages all available data to train AI models of hydrocarbon

flow in wells and surface production networks. The models are used to generate a virtual metering network by inferring hydrocarbon state estimations (flow rate, pressure, temperature) from wells, pipelines, and network assets that are inaccurately or only periodically instrumented.

This continuous virtual metering estimation enables operators to allocate production to individual wells, identify injection well optimizations and recommend improvements to address production and sensor issues.

bakerhughes.com

Vibration transmitters

PCB Piezotronics, a subsidiary of MTS Systems, announced the release of Models 682A14 and 682A15, low-cost vibration transmitters designed for use with a 100 mV/g ICP accelerometer. The products were developed for use in process monitoring and PLC/DCS/ SCADA monitoring applications.

pcb.com



New vibration transmitter from PCB Piezotronics

Miratech Catalyzer

Miratech, a supplier of exhaust emissions and acoustic systems for diesel and gaseous-fueled engines, has developed a web-based program to apply and optimize emissions controls, silencers and related hardware.

Miratech Catalyzer software can be used to create exhaust system project calculations for acoustics and system backpressure, along with technical drawings. It assists in the system design of reciprocating diesel and gaseous-fueled engines used in power generation, gas compression, marine, industrial and off-road applications.

It also enables selection and pricing of acoustic products and exhaust accessories. It incorporates a preloaded database containing exhaust and acoustic data from hundreds of the most widely used engines ranging from 30 to 4,000 hp. The program can create a 3D rotatable model of the exhaust system for reference as the user configures a system.

miratechcorp.com

Simpson Eagle digital meter

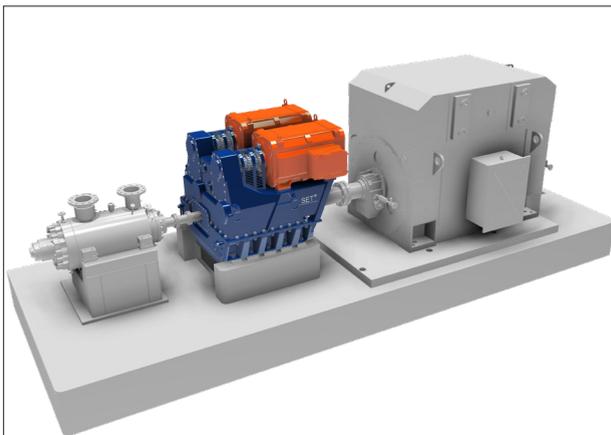
The Simpson Eagle is a programmable digital meter with a reinforced fiberglass enclosure that protects electronics from harsh environmental conditions. The Eagle meter can measure AC/DC voltage, AC current or frequency.

The user programs the Eagle by computer via an included USB port and cable. The programming can create bar graphs and pre-set alarms that alert operators when an established parameter is out of range. It also can set configurable backlighting that colors the screen white, red or green to instantly indicate the state of the system being monitored. The screen incorporates a message board that displays 4-character custom messages, alarms and annunciators that keep the operator informed.



Simpson Electric's digital meter

simpsonelectric.com



Variable speed gearbox by Set

Variable-speed gearbox

Setcon is a variable-speed gearbox by Set that replaces existing direct drive systems thanks to its speed variability range, efficiency and robustness. Compared to conventional solutions like variable frequency drive (VFD), hydro-dynamic coupling (HDC) or hydro-dynamic variable-speed drive (HDVSD), it produces a higher rate of energy efficiency (up to

97%). The combination of mainly mechanical power transmission and small, low-voltage electronic components results in high performance and reliability.

The smaller package size, lower oil volume and oil cooling, reduced heat generation and air conditioning, and simpler pipework result in lower investment costs. The main drive can be downsized by up to 20% of

the total power rating. In most cases Setcon can be retrofitted into existing drive systems without repositioning of the main components. The company has been awarded a contract to install its electro-mechanical differential gear system at a refinery in Germany.

set-solutions.net

Microturbine generator

UAV Turbines announced its Micro-Turbogenerator System (MTS), a compact and lightweight, military-grade generator. It provides first responders, search and rescue, disaster relief and military operations with a power generation source that can easily be transported to remote locations by two people.

These microturbine generators operate with less vibration and a lower noise level than other generators. The MTS can deliver power ranging from 3 kW to 40 kW. UAVT developed it based on its Monarch 1 microturbine.

uavturbines.com

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