

Load pins for tough environments

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innovations

German-based Tectis has introduced a new range of load pins, designed to cope with the toughest of environments, making them ideal to replace regular pivot pins on cranes, telehandlers or aerial lifts.

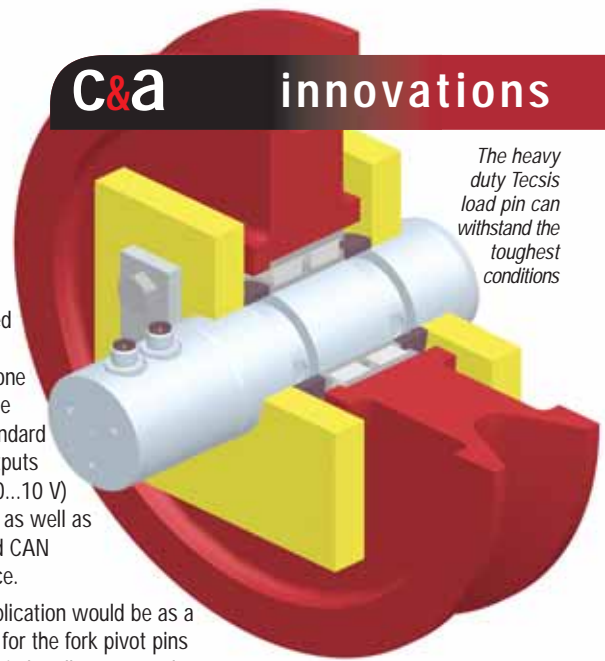
The pins - type F5308 - meet and exceed protection class IP67 - a version with IP69k is also available. All sensitive parts such as connectors and electronics are also fully protected against mechanical damage. The design also allows use in marine applications such as on harbour cranes.

The company says that an ATEX 'explosion proof version is also available for use in particularly sensitive areas where an explosive hazardous gasses or other flammable material is present in the air.

The force transducer is equipped with a reliable thin-film sensor from Tectis, which guarantees high accuracy and long-term stability of the signal. The load pins are available in customised versions with nominal loads ranging from 10 kN up to 3,000 kN.

The combined error spread is less than one percent of the full load. Standard analogue outputs (4...20 mA, 0...10 V) are available as well as an integrated CAN open interface.

A typical application would be as a replacement for the fork pivot pins on a telescopic handler or as a sheave pin in a crane boom nose.



The heavy duty Tectis load pin can withstand the toughest conditions

Audio visual alarm in one

E2S has launched a new range of integrated beacon and audio alarms, dubbed the SpectrAlarm they are designed to offer both a high performance audible and visual signalling in a single unit. Sound outputs range up to 126dB and can be combined with a powerful beacon with a choice of rotating mirror, flashing Xenon or LED technologies.

The SpectrAlarm combines beacon and audio alarm in a single unit.



The beacons on the Spectr AB121 for example comes with a choice of 15 Joule Xenon or rotating mirror beacons providing effective signalling in all conditions.

The integral design is not only visually more attractive than separate units, but also saves on installation time, reducing cost. The sounder and beacon can be connected separately, allowing the user to silence the alarm but leave the beacon flashing until the emergency or fault has been cleared.

Manufactured from UV stabilised polycarbonate, the SpectrAlarm units will not fade when exposed to direct sunlight and are protected to IP65, making them more than suitable for normal outdoor applications.

Until now, most products of this type on the market were limited to a five Joule Xenon beacon, which is simply not powerful enough for outdoor use, especially in bright sunlight.

Colour coded noise

Casella CEL, the UK's specialist provider of environmental monitoring solutions has developed an all-new pocket-size digital sound level meter. Casella claims that the CEL-621 is the smallest 1/3rd octave-band noise analyser in the world and includes statistical (Ln%) values making it the perfect tool for short-term, hand-held, environmental noise assessments.

All measurements from simple baseline surveys to full 1/3rd octave band analysis, can be performed quickly and easily through a simple, intuitive menu driven system. The high resolution display assists the user by presenting results in a simple colour-coded format that minimises the risk of misinterpreting the data collected in the field. On board memory and simple USB download allow data to be included in reports, once back in the office without any specialist software.

The CEL-621 uses all-digital technology that can measure in just one span up to 140dB, negating the need for range adjustment and thus eliminating errors which may otherwise result. Digital technology also means that measurements are inherently stable and repeatable unlike previous generations of analogue instruments. Yet another

unique feature is that it measures all broadband and octave measurement parameters simultaneously so the user doesn't have to worry if the instrument has been set up properly; all parameters may be chosen retrospectively.

The CEL-621 is future-proofed by being fully upgradeable without the need to even return the instrument to Casella. This allows new features to be added as they become available or as budgets allow.

The CEL-621 is supplied as a kit in a rugged briefcase, which includes an acoustic calibrator, windshield, software and USB download cable. Both instrument and calibrators come with calibration certificates as standard, documenting compliance with the latest IEC 61672 Sound Level Meter standard.

The CEL-621 is a highly accurate pocket size sound meter



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