

## The **DataPro-42** and **DataPro-42+** Hoist Design Working Period Utilisation Recorder



The purchase of electric hoists is a very expensive exercise so it is sensible to expect that you would wish to ensure that the hoist manufacturer's Design Working Period (DWP) is utilised to the maximum before it becomes necessary to implement the recommendations of AS2550.1-2011.

This Standard recommends that if you own or operate a hoist that is seven calendar years old (or older), then you should undertake a Major Assessment, which must include an engineering calculation of the remaining DWP of the relevant hoist. If you have not undertaken the Major Assessment before the hoist has reached ten calendar years old then you are required to conduct a Major Inspection that could involve overhauling or replacing the hoist, which will be a costly exercise. During the Major Assessment, accurate hoist utilisation records will be required; failure to provide these records could mean that any remaining DWP may be reduced by the inspecting engineer.

Hoists are rated to lift their full capacity for a specific number of hours. How, then, is it possible to prove that a hoist is still operating within its original DWP if it has been used, during the course of its everyday duties, to lift differing loads over varying lengths of time. It is safe to say that the majority of companies will not be able to provide any records that can prove how the hoist has been used during its day-to-day operations, and, therefore, the hoist will have to be assessed for Continued Safe Operation purely on the time frame, as recommended in AS2550. This could mean that you will have to conduct an expensive Major Assessment or Major Inspection on a hoist that may only have used a portion of its DWP, and this could prove to be wasteful and costly. If you wish to ensure that the hoist maximum DWP is achieved before the recommendations of AS2550 become necessary, then you will be required to show documented proof of the hoists utilisation and confirm that it is still operating within its original design life.

The most cost effective solution to monitoring DWP is to install the **DataPro-42** the problem with record keeping is then overcome, as accurate DWP records will provide evidence that, although the hoist may have exceeded the recommendations of AS2550, it is still operating within the manufacturers original design.

The **DataPro-42** is designed to be fitted to either new hoists or hoists that have been re-certified for Continued Safe Operation. The DWP report can be extracted from the **DataPro-42** in plain text format by using a USB wireless dongle or, in the case of the **DataPro-42+**, emailed straight from the device to an email address and intervals of your choosing.

# Specification

- Poly carbon enclosure (IP65)
- Wireless communications for initial calibration and downloading plain text DWP report
- Ten years data storage on Micro SD card + Backup Micro SD card + Backup battery.
- Input 1: Hoist DWP recording.
- Input 2: Crane structure DWP recording.
- Input 3: Long travel usage hours recording.
- Input 4: Cross travel usage hours recording.
- Output 1: Overload Protection.
- Output 2: Warning alarms.
- Variable input voltage 16-48 Vac
- Operating Temperatures: Minimum: - 15° C – Maximum: + 70° C
- The on- board RS232 ensures an easy connection to our optional load display.
- Option to upgrade **DataPro-42** to the **+** model which can then email the DWP reports.

## Functionality Schematic



*Information in this brochure is subject to change without notice.*