

ABSTRACT**A DATA LOGGING SYSTEM AND METHOD THEREOF**

The present invention discloses a data logging system (100) for monitoring work activity, the data logging system (100) comprises a plurality of sensors (101) for collecting sensor data; a data logging device (200) comprises a geographical positioning sensing component (201) for collecting location data of the data logging device (200); a processing module (202) for processing the sensor data and the location data; and a transceiver (203) configured to receive the sensor data and transmit the processed data, from the processing module (202), over a wireless network communication at a predetermined time interval, a random time interval, or a combination thereof, and a server (300) configured to receive the processed data from the transceiver over the wireless network communication and analyse the processed data, wherein the data logging device (200) further comprises device management module (209) configured to determine a current operating condition of the data logging device and switch the data logging device between a plurality of communication modules (204) to optimize power consumption and data transceiving efficiency of the data logging device (200) based on the current operating condition.

(The most illustrative figure: Fig. 1)