



Crane Depth Solution - 3rd Generation

by Bob Glover

HYPACK is proud to announce the development of our third generation Crane Depth Solution System. This system features a redesigned processor board, low power consumption WiFi access point and also an industrial router all packaged into a smaller weather-sealed cabinet.

FIGURE 1. *Crane Depth Solution, 3rd Generation*

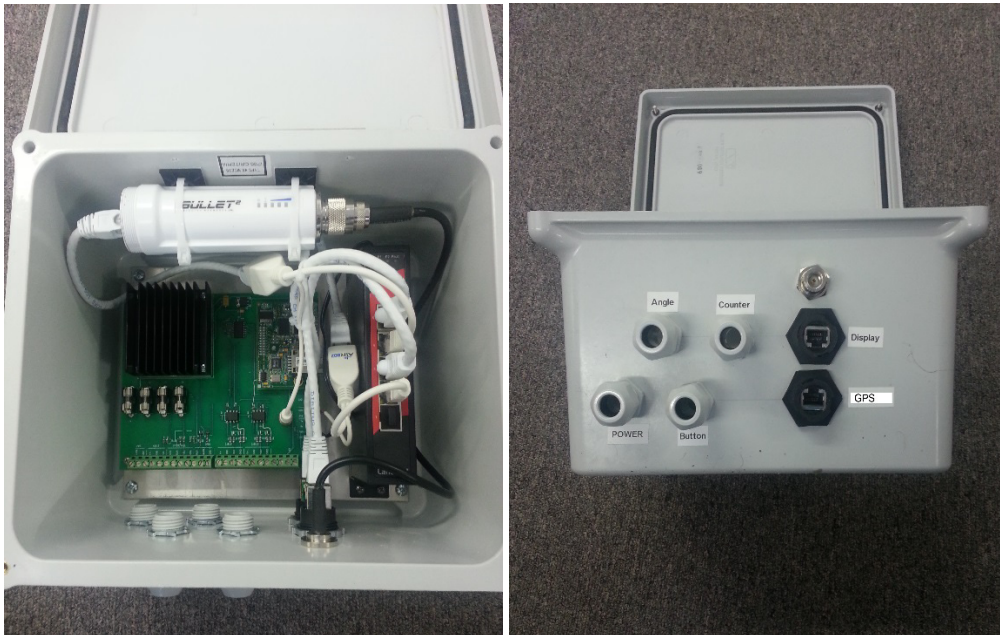
The smaller size of the unit's footprint will allow it to be mounted within the operator's area less intrusively than before. The new system continues to be powered using standard 24 volt DC current, easily supplied from most crane batteries and eliminating the need for inverters.

The latest preloaded firmware version now has provisions for more accurate counting of multiple cable wraps during the calibration of the system. The firmware also allows the use of rotational counting devices along with the previously used optical or magnetic units. This can reduce installation time when attempting to design brackets and mounts for drums not well suited for optical or magnetic pickups. Firmware version 2.0 now reads two drum rotation counts, systems equipped with two sets of drum counting units can now read the close cable to determine the percentage that the bucket is opened. New for version 2.0 is the ability to read dual inclinometers used for pitch and roll corrections should they be necessary.

Weather resistant cable grips seal tightly around the incoming cabling to prevent the elements from entering into the housing in harsh environments. Special category-five connector heads are also supplied with the system to prevent corrosion to the network connections on the underside of the unit.



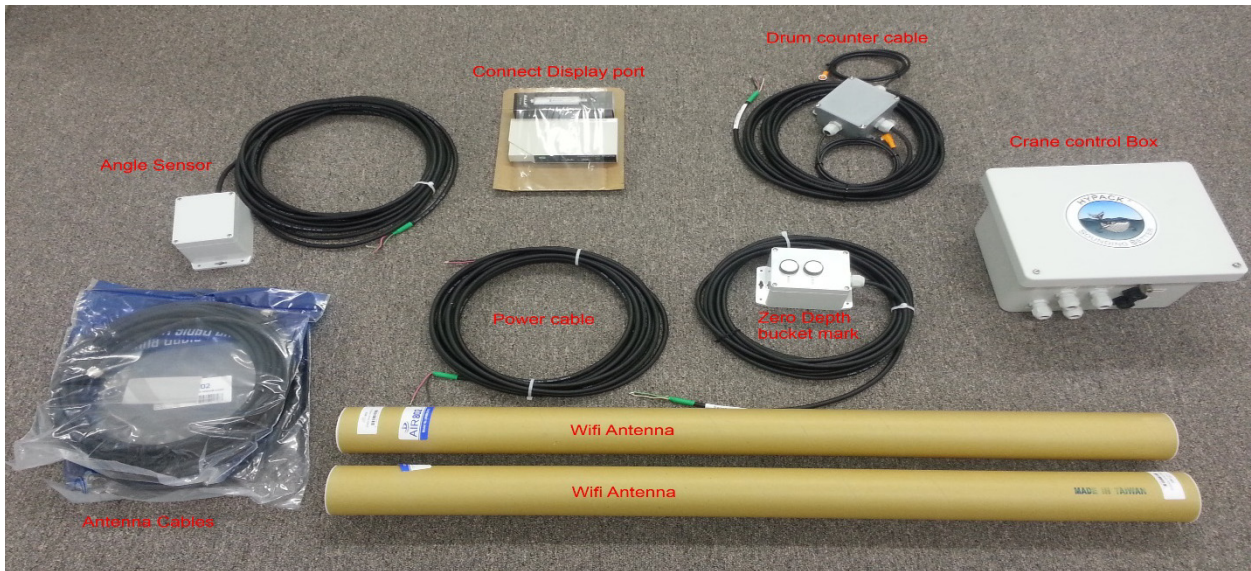
FIGURE 2. Crane Depth Solution Inside and Out



With the addition of the low power consumption WiFi access point, the system no longer needs to have dual power supplies, leaving more space on the circuit board for mini LED lights for visual confirmation of drum counts. A female N type bulkhead for the antenna rounds out the cabling entering the cabinet. Systems ordered with multiple drum counters also have cable grips for the secondary counter cables (not pictured above).

The complete Crane Depth Solution System is supplied with a boom angle sensor wired into a weather resistant housing, and all necessary cabling for installation. Two omnidirectional WiFi antennas with 30 feet of cabling are also supplied. A secondary WiFi access point to allow for the computer running DREDGEPACK® to be located away from the crane. A network display connect port receives the operator's monitor feed through the wireless network eliminating the need for a cumbersome laptop and cables in the cab. The bucket mark and depth reset switch also come wired and sealed. All systems will be bench tested and configured before they are shipped to assure that they function as expected when they arrive on site for installation.

FIGURE 3. *The Contents of a Standard Depth Solution System Package*



Should you have any questions regarding the Crane Depth Solution System, please contact help@hypack.com or sales@hypack.com and we will be happy to answer them to the best of our ability.