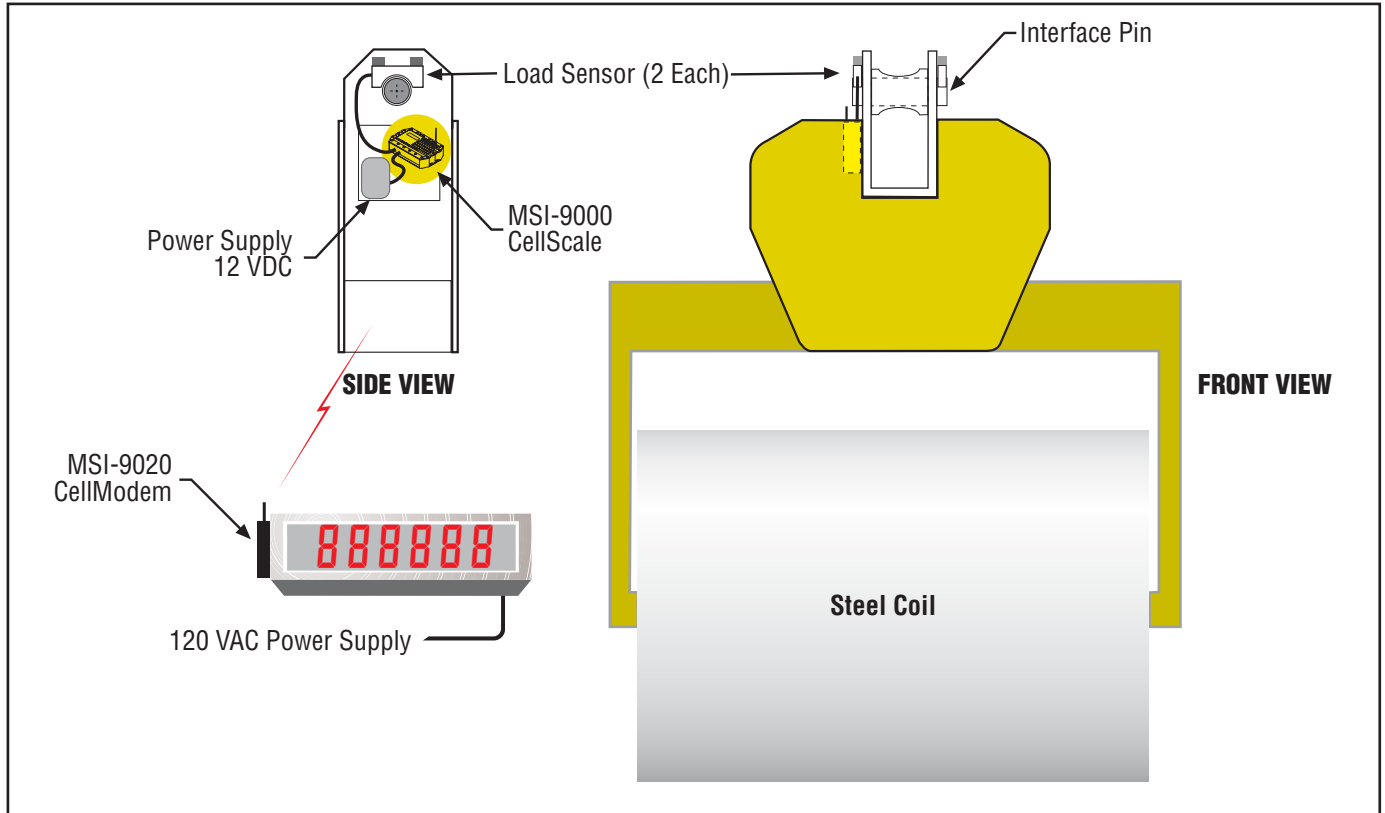


Steel Coil Grabber Integrated Weighing System



Application

A steel service center wanted to integrate a weighing system on their steel coil grabber to minimize headroom loss while capturing coil weights in process. Initially, the customer wanted to display the weights on a scoreboard within the plant. Their future plans were to integrate the coil weighment information directly with their host computer system.

Solution

Double-ended shear beam load cells were mounted on the coil grabber to sense the load through its interface pin. The load cell outputs were wired to an MSI-9000

CellScale that was powered by a 12V rechargeable battery. The weighment information was transmitted from the CellScale to an MSI-9020 CellModem that was connected to a wall mounted scoreboard.

Features and Benefits

The compact packaging and versatile mounting of the standard CellScale provided an easy integration with the double-ended shear beam load cells on the coil grabber. The individual load cell outputs were summed by the CellScale for the system to transmit and display total coil weight during each lift. Using

a 12-volt SLA battery to power the CellScale and load cells eliminated the need for separate power cables and provided approximately 25 hours of continuous use between charges. The expandability objective can be easily accommodated by adding an additional MSI-9020 CellModem to the Network for interfacing with their host computer system.

Contact MSI now for more information on CellScale Network Solutions and/or to arrange an application review and proposal.