

Shackle Load Cell

Product Highlights



Stellar Technology load cells are being used on an aquatic barrier designed to filter out ocean life with a water-permeable barrier that keeps fish eggs, larvae and other aquatic plants and organisms a safe distance away from industrial intake structures. By protecting the intake from marine life intrusion, the system reduces operating and maintenance costs and helps prevent plant shutdowns.

Each system uses ten customized Model RDE900 Shackle Load Cells to monitor tension levels on the mooring lines which secure the system. Rising loads indicate that the aquatic filter barrier is being clogged and flow to the intake is being restricted. Sediment and passively floating organisms which have been drawn onto the fabric are then freed by an air-burst cleaning system which releases high-pressure air at the boom's base. These bursts of compressed air shake each fabric panel, releasing deposits and restoring a steady flow of water through the curtain.

Features include:

- Salt water submersible
- 10,000 lb capacity, calibrated in tension
- Designed to fit a standard 5/8" Crosby shackle
- All welded stainless steel construction
- Integral connector guard
- 4-20mA output

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