Load Cell Modbus Interface

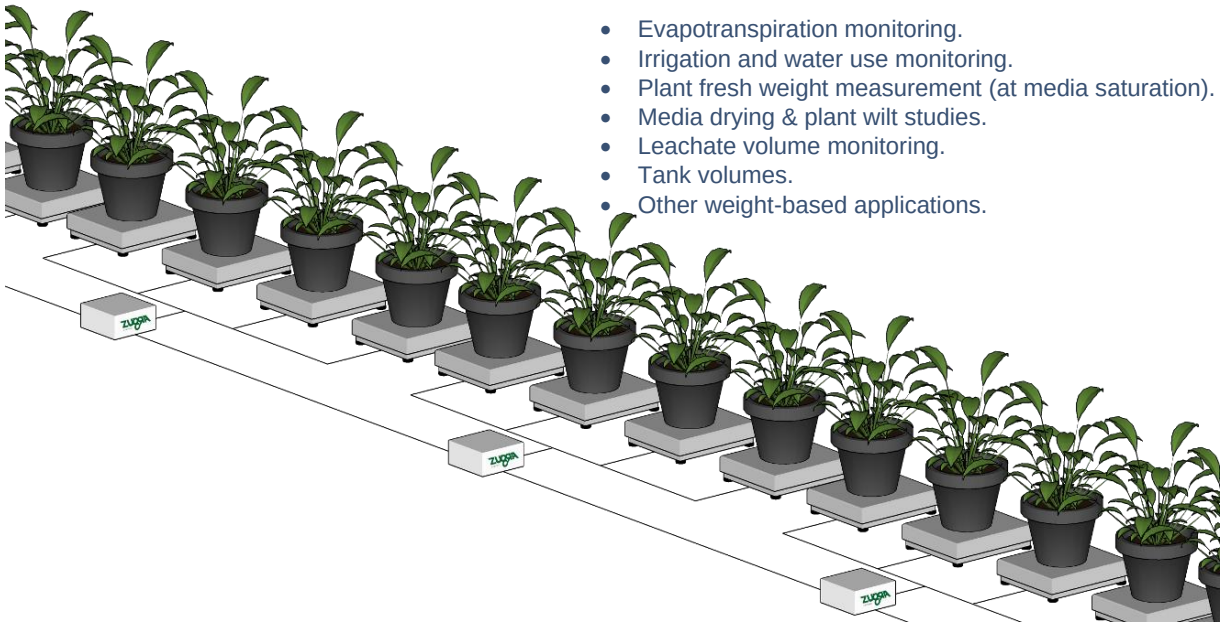
The Argus Load Cell Modbus Interface is a Modbus RS-485 RTU product for connecting load cell measurement arrays to Argus Titan systems.

Applications

The Argus load cell interface system is designed for measuring, monitoring, and recording the data from load cells and weigh scales. Each interface module can connect up to four load cells or scales. Arrays of up to 16 load cell modules are supported on each Titan controller, connecting up to 64 discrete scales or load cells. Larger numbers of scales can be accommodated by using additional controllers. The typical time between samples is 5 seconds.

Typical applications include:

- Evapotranspiration monitoring.
- Irrigation and water use monitoring.
- Plant fresh weight measurement (at media saturation).
- Media drying & plant wilt studies.
- Leachate volume monitoring.
- Tank volumes.
- Other weight-based applications.



Features

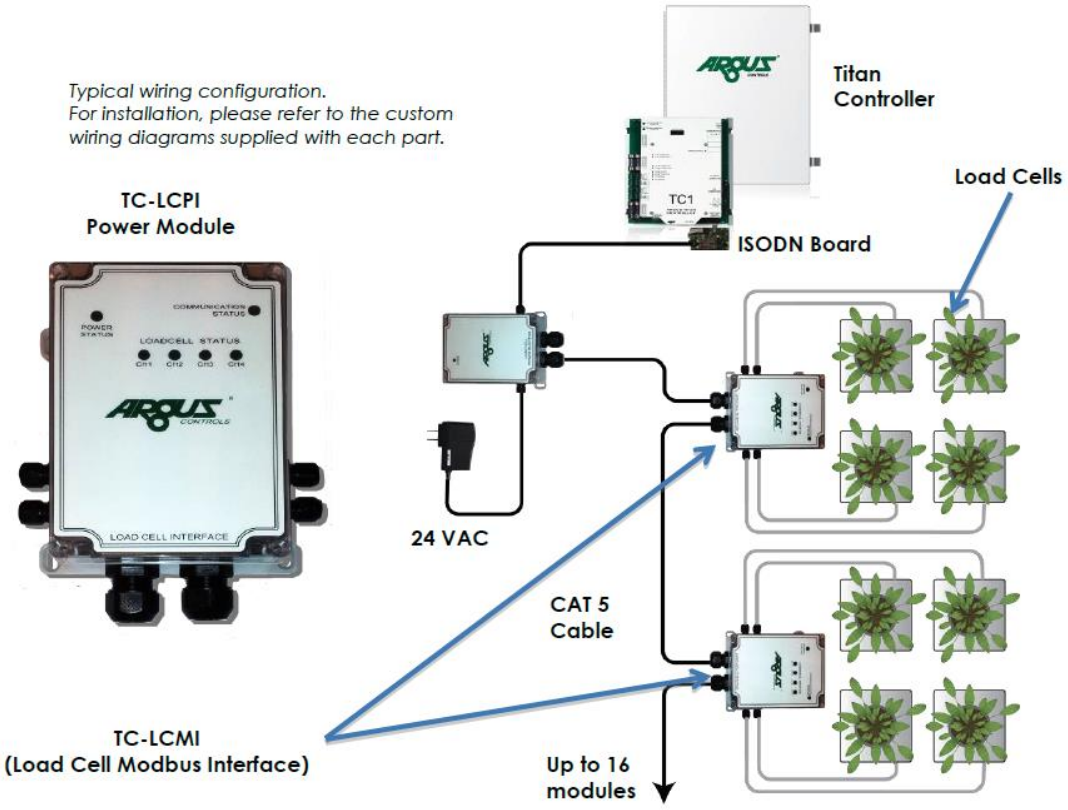
- **Economical** – Up to 64 load cells can be connected using a single wiring path and controller connection.
- **Power Injection** – A single power supply unit (TC-LCPI) is used to power up to 16 LCMI units.
- **Easy to Install** – Standard Ethernet cables with RJ45 connectors are used for network connections and power supply to the LCMI modules and load cells.
- **Status Indicators** – Separate status LEDs are provided for communications, power, and each connected load cell.
- **Durable Enclosure** – NEMA 4X Indoor/Outdoor-rated enclosure with mounting feet and watertight cable glands.
- **Precision** – Calibration functions for each load cell are provided in the software. Temperature compensation is possible, but each scale needs testing to determine its unique correction values.

PHONE: 604-538-3531 or 1-888-667-2091 (Canada and the US) - **FAX:** 604-538-4728 - **EMAIL:** argus@arguscontrols.com

Specifications

Dimensions	7" x 4.5" x 2.5" (height x width x depth)
Protection	1A internal fuse
Load Cell Connections	Up to 4 Load cells can be connected to each TC-LCMI
Network Connections	2 CAT5 (In/Out) with RJ45 male connectors
Network Termination	Integrated - (activated by a jumper)
Power	24 VAC provided by the TC-LCPI (See the diagram below)
Excitation Voltage	5 VDC

Wiring Details



Additional Information

For more information, please contact Argus.

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