



AGRI

Soil-moisture intelligence and irrigation control

Understand when crops need water, monitor moisture throughout the root zone, and control compatible irrigation valves over private long-range connectivity.

PRODUCT STATUS

IN PRODUCTION

Hardware revision 6.0 | July 2026


AGRI FIELD TERMINAL

Soil moisture and valve control in active deployment

PRODUCT HIGHLIGHTS

ROOT-ZONE INPUTS

Up to three moisture measurements

BATTERY POWER

Four C-cell battery configuration

VALVE CONTROL

Compatible latching irrigation valving

OVERVIEW

Modulink Agri is a battery-powered soil-moisture and irrigation-control terminal for vineyards, orchards, row crops, and other irrigated operations. Field data feeds irrigation workflows through the Modulink Basestation.

WHY AGRI

- Monitor up to three root-zone moisture locations from one terminal.
- Track soil tension and temperature with temperature compensation.
- Verify irrigation delivery against target soil conditions.
- Open or close a compatible latching irrigation valve remotely.
- Deploy without field power with long battery operation.

IDEAL APPLICATIONS

- Vineyards and orchards
- Row crops and produce
- Root-zone profiling
- Irrigation scheduling
- Deficit irrigation
- Remote irrigation automation



Agri specifications and deployment

Core interfaces, operating limits, platform compatibility, and deployment considerations.

Use this profile to evaluate power, networking, integration, and application fit.

TECHNICAL SNAPSHOT

Soil-moisture inputs	3 x Irrrometer Watermark sensors
Measurement	Soil-water tension in centibars or kPa
Temperature input	1 x DS18B20 soil temperature
Valve output	1 x compatible latching-solenoid interface
Supported valves	Compatible 9 VDC latching-solenoid irrigation valves
Communications	Private LoRaWAN US915
Input power	4 x C-cell batteries (6 V nominal)
Estimated battery life	Over one year in typical irrigation operation
Enclosure rating	IP68
Operating temperature	-20 C to +60 C
Dimensions	5.9 in W × 5.9 in H × 3.5 in D
Software	Modulink platform and irrigation workflows
Network	Modulink Basestation

KEY CAPABILITIES

- Three soil-moisture measurements from one terminal
- Temperature-compensated tension readings
- Latching irrigation-valve control
- Configurable sensing and reporting intervals
- Battery status and valve-event monitoring
- Field diagnostics from mobile and web dashboards

DEPLOYMENT ADVANTAGES

- No field power required
- No per-device cellular fee
- Long-range private networking
- IP68 field-rated enclosure

SYSTEM FIT

FIELD ASSET > TERMINAL > BASE STATION > MODULINK SKILL



FIELD ENCLOSURE DETAIL

Battery compartment and valve-control interface

Measure the root zone and automate irrigation decisions with confidence.

Scan for product information, deployment guidance, and current availability.

getmodulink.com/products/agri

