

AT

Delta-T Devices



Leaders in Soil Moisture
Data Logging and
Plant Science

Soil Moisture Products

OPTIMISE IRRIGATION

Irrigation, horticulture and agriculture

Research grade sensors and systems now available to growers

- Monitor soil moisture
- Improve yields and quality
- Demonstrate water-use efficiency

Take control of your watering needs with the latest generation of accurate, dependable soil moisture sensors. The sensors and systems are designed to integrate easily with existing time-based controllers and save water by preventing unnecessary irrigations when the soil or substrate is already moist.



WS-GP1 Weather Station

- Complete systems for recording weather data and calculating evapotranspiration (ET)
- Outstanding performance and durability under all conditions
- GSM modem download option

HH2 Moisture Meter

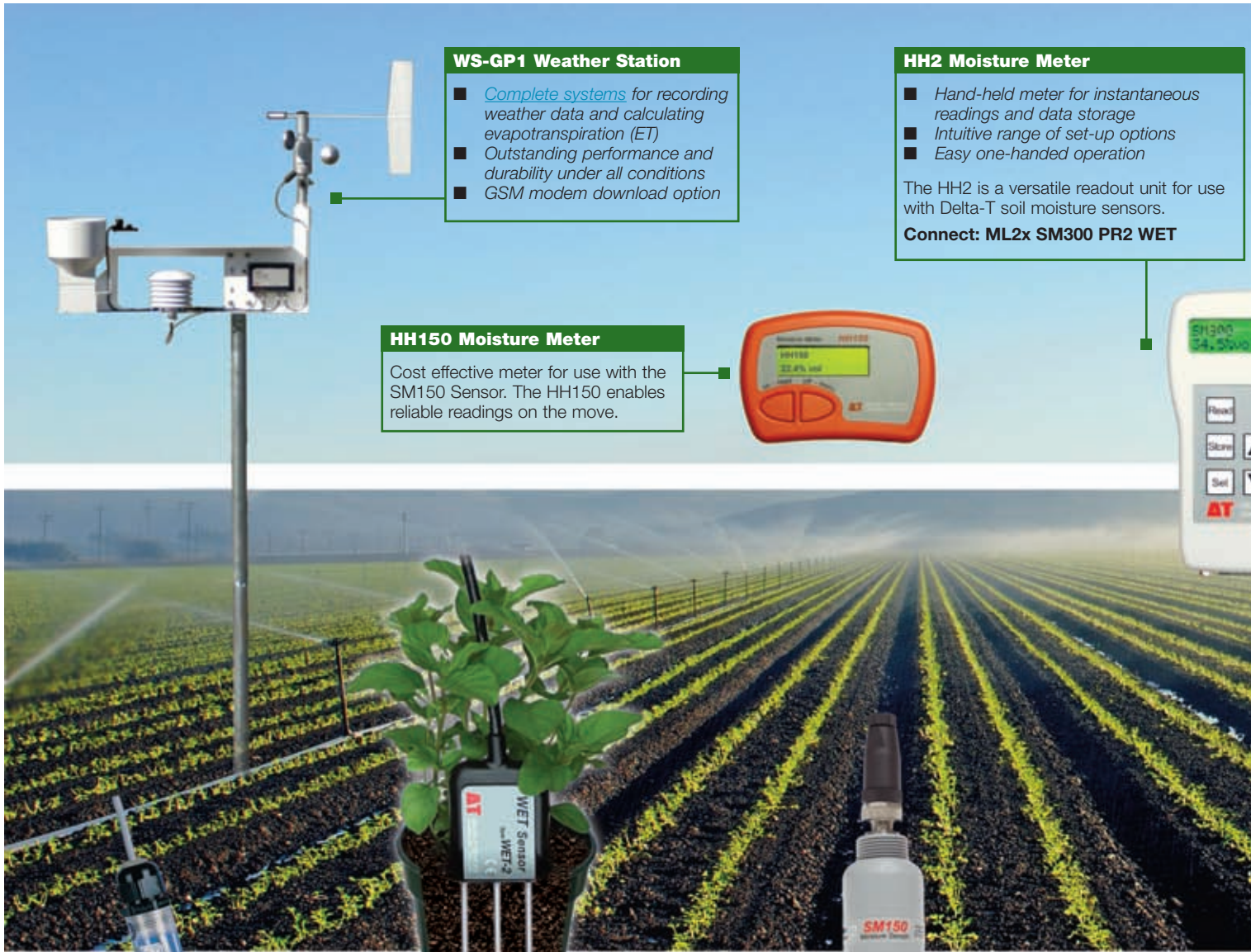
- Hand-held meter for instantaneous readings and data storage
- Intuitive range of set-up options
- Easy one-handed operation

The HH2 is a versatile readout unit for use with Delta-T soil moisture sensors.

Connect: ML2x SM300 PR2 WET

HH150 Moisture Meter

Cost effective meter for use with the SM150 Sensor. The HH150 enables reliable readings on the move.



WET Sensor

- Measures Water content, Electrical conductivity and Temperature
- Rapid monitoring for consistent growing conditions

In just 5 seconds the **WET Sensor** checks 3 crucial variables that influence plant growth.

Connect: HH2 GP1

SM150

- Cost effective soil moisture sensor
- ±3% accuracy
- Good temperature and salinity stability

The **SM150** Soil Moisture Sensor is a simple, reliable, low cost option for making soil moisture measurements. Also available in a convenient kit with a dedicated HH150 Moisture Meter and carry case.

SWT4, SWT5

- A range of accurate, high quality water-filled **tensiometers**

Connect: GP1 (requires adapter board)

Moisture sensors and controllers for effective

GP1 Irrigation Monitor

- Low cost data logger with monitoring and control options
- 2 analog channels, plus temperature and counter inputs

The **GP1** is a compact, sealed data logger and moisture control unit. It can be used to enhance time-based irrigation systems to include moisture control.

Connect: **ML2x SM300 WET (SWTx)**

DL6 Data Logger

- Powerful data logger with monitoring and control options
- Simple connection to Profile Probes
- 6 analog channels, plus temperature and counter inputs

The **DL6** is optimised for use with Profile Probes, but its versatility enables it to store readings from other moisture sensors, a rain gauge and/or temperature input.

Connect: **ML2x SM300 PR2**



SM300

- High quality soil moisture sensor at low cost
- Built-in temperature sensor
- Simple insertion into pots, substrates and soils

The **SM300** is an ideal sensor for irrigation control and monitoring.

Connect: **HH2 GP1 DL6**



ML2x ThetaProbe

- Outstandingly accurate soil moisture sensor

The **ThetaProbe** is respected worldwide for its accuracy, reliability and ease of use. It is exceptionally tough and can be used in all soil types and substrates, including sand, clay, peat and saline soils.

Connect: **HH2 GP1 DL6**



PR2 Profile Probe

- Portable, simple and accurate soil moisture profiles
- Dual purpose – installed and portable
- PR2/4 – 4 readings, down to 0.4m
- PR2/6 – 6 readings, down to 1m

With the **Profile Probe** you can easily record soil moisture changes over time, then create a water balance or optimise irrigation scheduling. Readings are taken in robust GRP access tubes.






Connect: **HH2 DL6**

ML2x, SM300 and SM150

The **ML2x**, **SM300** and **SM150** sensors can be buried at depth by augering or trenching.

ative water management

Water content sensors

	ML2x	SM150	SM300	WET Sensor	PR2
					
Measurement	Soil water content	Soil water content	Soil water content, Temperature ²	Soil water content, EC, Temperature	Soil water profile (4 or 6 depths)
Accuracy ¹	±1%	± 3%	± 2.5%	± 3%	± 4%
Optimal range	0 to 60%	0 to 70%	0 to 50%	0 to 100%	0 to 40%
Frequency	100 MHz	100 MHz	100 MHz	20 MHz	100 MHz
Typical applications	Soil moisture research	Cost effective moisture monitoring and irrigation control	General purpose soil moisture, temperature monitoring and irrigation control	Monitoring soil moisture and EC for protected crops	Monitoring soil moisture profiles for field crops

1) % volumetric water content

2) SM300 must be fully buried to accurately measure soil temperature

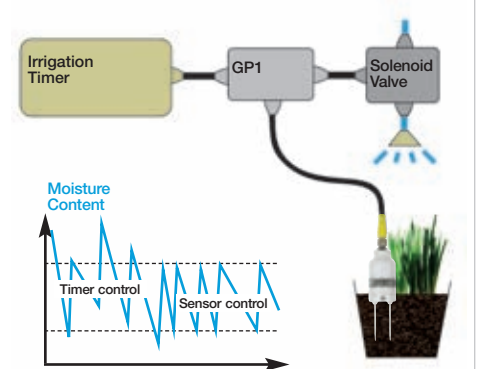
Data loggers and meters

	HH150 Meter	HH2 Meter	GP1	DL6	DeltaLINK
Input connections	1 SM150 Soil Moisture Sensor	1 water content sensor HH2 does not provide temperature indication from the SM300	2 analog channels 2 temperatures 2 counters	6 analog channels 1 temperature 1 counter	Software for configuring GP1 and DL6 loggers and collecting data
Readings stored	Readout-only device	1,500	600,000	16,000	
Recording rate	–	–	1 second to 24 hours	1 second to 24 hours	
Control options	–	–	1 smart relay (2A)	1 smart relay (2A)	
Typical applications	Readout-only device for SM150 Sensor (no PC connectivity)	Instantaneous reading of soil moisture / profiles / WET sensor	Monitoring soil moisture and controlling irrigation	Monitoring soil moisture profiles and controlling irrigation	

Analog channels are typically used for soil moisture sensors, counters for rain gauge or (GP1 only) water meter

Irrigation control

The GP1 and DL6 can be used to integrate soil moisture sensors into existing irrigation control systems.



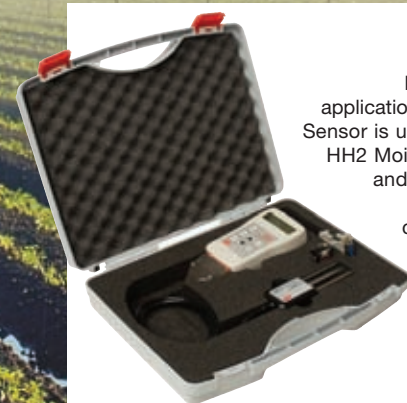
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co-operatively owned and managed

Representative:



WET Kit:

For portable applications the WET Sensor is used with an HH2 Moisture Meter and is normally supplied as complete kit.