



Read First

This guide describes how to start using your sensor immediately. If you read nothing else, read this guide.



For detailed information, download the user manual: **DECAGON.COM/EN/EM**

All decagon products have a 30-day satisfaction guarantee and a one-year warranty. Incorrect sensor installation can void your sensor warranty.

If you are using the sensors in lightning-prone areas, follow our directions for providing protection for the sensors at: **DECAGON.COM/LIGHTNING**

Pre-Installation

Before installing your sensors in the field, set up and test your system (sensors and data loggers) in your lab or office. Make sure that you are using the most up-to-date software and firmware with Decagon data loggers. Visit the individual Decagon data logger product page for the most up-to-date software and firmware.

Sensor Overview



VP-4

Barometric Pressure, Humidity, Temperature, Vapor Pressure



ECT

Air Temperature



SRS

Measures NDVI or PRI Spectral Vegetation Indices



Duration of Leaf Wetness

LWS



Electrical Conductivity,

ES-2

Temperature

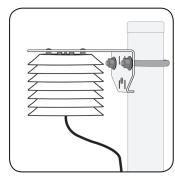


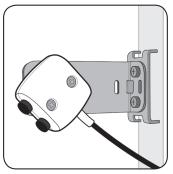
RT-1

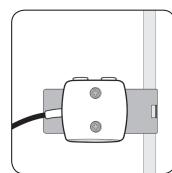
Rugged Temperature

5

Installing Sensor







SRS Teflon® Diffuser

Securely mount and level the sensor as necessary.

LWS

Secure sensor to plant ensuring the sensor face is parallel with the adjacent leaf surfaces.

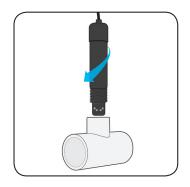
ECT / VP-4

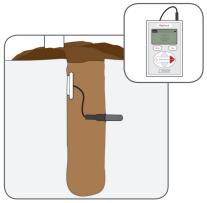
Securely mount and level the sensor as necessary.

SRS Field Stop

Securely mount and level the sensor as necessary.

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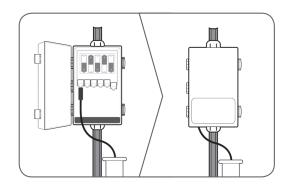


ES-2

RT-1

Screw sensor into threaded pipe fitting.

Insert the sensor into undisturbed soil and use the optional ProCheck to make sure your sensor reads accurately.



Plug in Sensor and Configure Logger

Always protect the cables with PVC casing above the ground surface. See next page for more details about configuring your sensor.

For more information on suppliers and installation methods contact Customer Support: 1-509-332-5600 or support@decagon.com

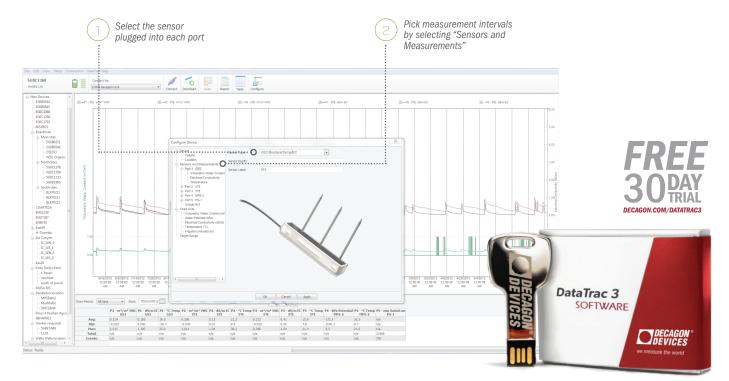
Logger Configuration

Configuring your logger in ECH2O Utility

<u>File Edit Data Actions Window H</u> elp		 (1)	Pick your measurement interval
Connected to Em50R: EM6784 5/22/2014 8:35:01 AM	M3 Decag v Disconnect Disconnect)	
Em50R Identity	Sensor Measurement		
Name EM6784	Measurement Interval Off (not logging)		
Device ID: EM6784 Firmware Version: Em50 2.18	Data Storage:0% in use		
Device Location	Port 1 Sensor GS3 Moisture/Temp/EC - O······	······(2)	Select the sensor plugged into each port
Site Name	Port 2 Sensor GS1 Soil and Media Moisture 👻	Ŭ	
Latitude	Port 3 Sensor 5TM Moisture/Temp 👻		
Longitude	Port 4 Sensor None Selected -		
Time Zone: UTC-07	Port 5 Sensor None Selected 👻		
Communication Hardware Options	Power Noise Filter: 60 Hz		
Communications configured with these settings			Calact "Applu" to cave pattings
Radio Mode: Radio Off Channel: 0 Sub Channel: 0 Radio Firmware Version: 5000		3)	Select "Apply" to save settings
	Revert Apply O		

8

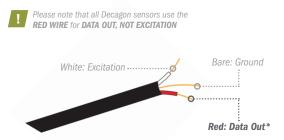
Configuring your logger in DataTrac 3



Non-Decagon Loggers

Our user manuals and integrator's guides have complete information for interfacing Decagon Sensors with non-Decagon loggers. In addition, we suggest that you use the specific logger manual during set-up.

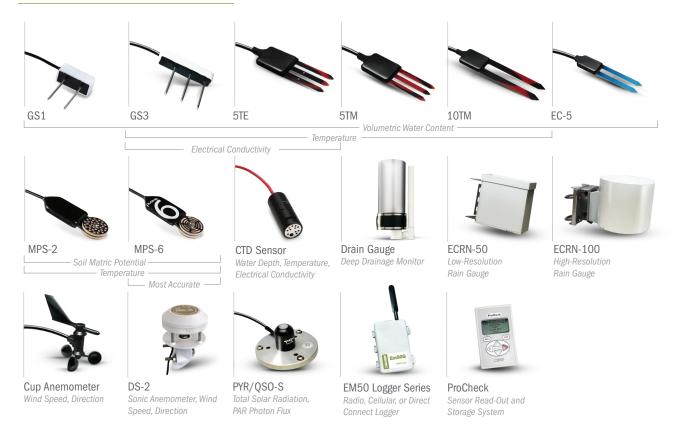
Sensor Cable 3-Wire Interface



Model	Excitation	Output
LWS	2.5-3.6 V	Analog
ES-2	3-15 V	SDI-12
VP4	3-15 V	SDI-12
SRS	3.6-15 V	SDI-12

NOTE: Decagon does not support the use of the Temperature or Temperature/Relative Humidity sensors with non-Decagon data loggers.

Related Products



Environmental Sensors Quick Start Guide | Printed in USA

Seller warrants new equipment of its own manufacture against defective workmanship and materials for a period of one year from date of receipt of equipment (the results of ordinary wear and tear, neglect, misuse, accident and excessive deterioration due to corrosion from any cause are not to be considered a defect); but Seller's liability for defective parts shall in no event exceed the furnishing of replacement parts F.O.B. the factory where originally manufactured. Material and equipment covered hereby which is not manufactured by Seller shall be covered only by the warranty of its manufacturer. Seller shall not be liable to Buyer for loss, damage or injuries to persons (including death), or to property or things of whatsoever kind (including, but not without limitation, loss of anticipated profits), occasioned by or arising out of the installation, operation, use, misuse, non use, repair, or replacement of said material and equipment, or out of the use of any method or process for which the same may be employed. The use of this equipment constitutes Buyer's acceptance of the terms set forth in this

warranty. There are no understandings, representations, or warranties of any kind, express, implied, statutory or otherwise (including, but without limitation, the implied warranties of merchantability and fitness for a particular purpose), not expressly set forth herein.

Application of Council Directive: 89/336/EE6 Standards to which conformity EN61326: 1998 is declared: EN51022: 1998

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Customer Support

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Environmenta PRODUCTS

we measure the world