

Our Retriever & Pups+ Network sends real time data to your laptop, tablet or smartphone; anywhere you can access the internet. Trust the data and eliminate the guesswork! Each Retriever can support up to 12 Pups. Each Pup can support four different sensors and you can receive customized threshold alerts. Our sensors measure everything from soil moisture to light, wind, rain, humidity and more. Expand your network by adding weather stations to bring data from every nook and cranny of your property directly to you.

Retriever & Pups+ Enhancements

- Added ability to remotely download firmware updates for Retrievers, Sensor & Station Pups
- Improved data transfer performance
- Pups save all data until the Retriever affirms that it has received and processed it
- Added acknowledgement feature, successful receipt sent to pup to ensure data is received
- Added flash memory feature on Pups to ensure over 10 months of unacknowledged data is saved pending the Retriever's response
- Added protection logic to prevent data spikes from occurring
- Increased number of Pup data records that can be stored on the Retriever
- Improved battery life
- If battery level gets too low to transmit data, the Pup shuts down the radio to dedicate all remaining battery power to collecting and saving data (for about 1 week)

Frost & Irrigation Station



Easily detect frost and be alerted of conditions in your crops, monitor and note site-specific conditions for insect and disease pressures and monitor soil moisture remotely.

Irrigation Pup Station



Flexibly monitor both soil moisture and EC in a variety of soil textures for better irrigation decisions.

Plant Disease Station

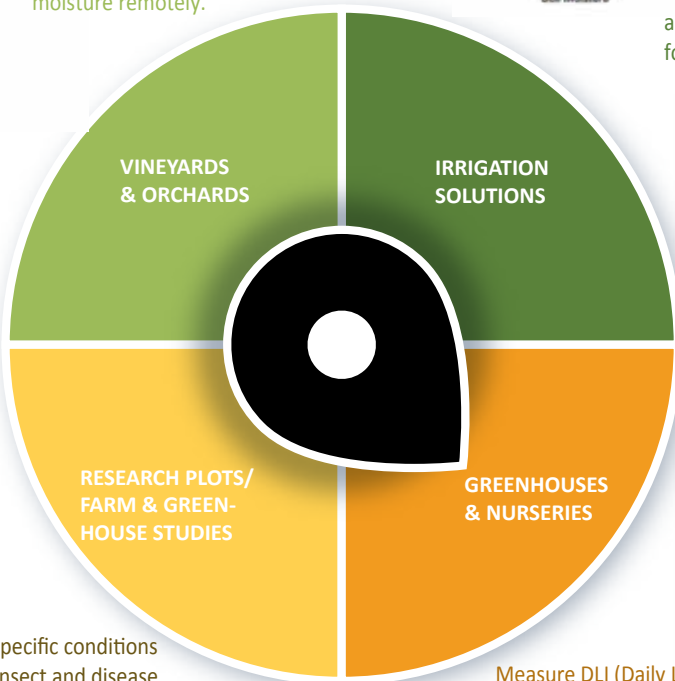


Capture site-specific conditions remotely for insect and disease pressures, soil moisture monitoring, weather conditions, light and more.

2900ET Weather Station



Measure DLI (Daily Light Interval), light duration and intensity for consistently better plant quality across greenhouse and high-tunnel structures. For outdoor growing monitor soil moisture, temperature and EC for efficient irrigation practices.



Pup Weather Station with Soil Moisture



Plant Growth Pup Station



Pups

SETUP A NETWORK

Multiple Pups with a variety of sensors to choose from give you unlimited measurement options within a single network. Follow steps 1-5

3 models

STEP 1

CHOOSE YOUR PUPS

HOW MANY?

ARE YOU CONNECTING TO OTHER WEATHER STATIONS?

DO YOU HAVE OBSTACLES, LIKE TREES OR BUILDINGS, HIGH/ LOW SPOTS THAT MIGHT INHIBIT TRANSMISSION?

WatchDog Sensor Pup

- Connect up to 4 external sensor inputs per Pup
- Transmits data to Retriever (directly or via other Pups)
- Includes 6 lithium AA batteries (solar-power option below)
- Available as Pre-Packaged Pup Stations, including sensors

3900 WatchDog Sensor Pup

WatchDog Station Pup

- Connects to WatchDog 2000 Series Full or Mini Weather Stations and transmits all station sensor data to the network
- No external sensors
- Includes 6 lithium AA batteries (solar-power option below)

3901 WatchDog Station Pup

WatchDog Repeater Pup

- Serves as “signal booster” to help provide a path for the transmission signal around obstacles or to extend range; no sensor inputs of its own
- Includes 6 lithium AA batteries (solar-power option below)

3902 WatchDog Repeater Pup

Additional Pup Information

- Single button operation: check battery status, signal strength, and join sensor network
- Tri-colored LEDs indicate battery level, signal strength, and data communication status
- Communication range of 2,500 ft (about 750 meters), line-of-sight installation between devices
- Pups act as repeaters to get data to the Retriever
- 900 MHz radios in this catalog; 868 MHz and 2.4 GHz also available for international use - Contact for details

Most Popular Sensors

Choose sensors for what you will measure. Choose up to 4 per Sensor Pup.

3613ARS	Temperature/RH Sensor with Aspirated Radiation Shield
3613THS	Temperature/RH Sensor with Passive Radiation Shield
3665RD	Digital Rain Collector with Bird Guard
3305ADD	Digital Anemometer
6470-20	WaterScout SMEC 300 Sensor with 20 ft (6.1 m) Cable
6460-20	WaterScout SM 100 Sensor with 20 ft (6.1 m) Cable
6450WD20	Watermark Sensor with 25 ft (7.6 m) Cable
3667	External (Soil) Temperature Sensor with 6 ft (1.8 m) Cable
3666	Leaf Wetness Sensor
3670I	LightScout Silicon Pyranometer
3668I	LightScout Quantum Light Sensor

STEP 2

CHOOSE YOUR SENSORS

WHAT ARE YOU MEASURING?

WHAT INFLUENCES YOUR CROP MOST?

WHAT ELSE DO YOU WANT TO KNOW?

OPTIONAL ACCESSORIES

POWER UP

Solar Power

3999

Solar Power Package for Pups & Retrievers
Includes 5W solar panel and 6V 4.5Ah rechargeable battery



100% Customizable



LightScout UV / Solar Radiation / PAR Light Sensors

Pressure Transducer

CO2 Sensor

Digital Anemometer

Irrigation On/Off Sensor

Digital Rain Collector

Barometric Pressure Sensor

External (Soil) Temperature Sensor

Temperature (Micro) Sensor

Digital Temperature / Humidity Sensor with Aspirated Radiation Shield

Digital Temperature / Humidity Sensor with Passive Radiation Shield

Leaf Wetness Sensor

Watermark Soil Moisture Sensor

WaterScout SMEC 300 Soil Moisture, EC, and Temperature Sensor

WaterScout SM 100 Soil Moisture Sensor

LightScout Quantum Sensor Bars



STEP 3

CHOOSE YOUR RETRIEVER

Retriever

GATHER THE DATA

WatchDog Retriever

- Receives all data from Pup network, each Retriever supports up to 12 Pups
- Includes USB Flash Drive and USB data cable
- Includes 6 lithium AA batteries. Can also be powered by DataScout modem, Direct-Connect cable or Solar Power Package
- Single button operation: switch modes, download data, upload configuration, and check battery status
- Tri-colored LEDs indicate mode, battery level, data communication status, and configuration status
- Non-volatile memory preserves your logged data, even when the batteries are removed
- 900 MHz radios; 868 MHz and 2.4 GHz also available for international use - Contact for details

3910 **WatchDog Retriever**



STEP 4

CHOOSE ADDITIONAL ACCESSORIES

TRIPOD?
BATTERY POWERED?
SOLAR POWER PACKAGE?
FLASH DRIVE?
CABLE?
ADAPTER?

Optional Accessories

3999 **Solar Power Package**
Includes 5W solar panel and 6V 4.5Ah rechargeable battery

3396TPS **Tripod Mount with Stakes**

3925 **Antenna Extension Cable - 10 ft (3 m)**
Includes Mounting Bracket and Hardware

3388USB **Replacement/additional USB Flash Drive**

3927C75 **PC Direct Connection Cable - 75 ft (22.9m)**
Connect your Retriever directly to your PC. Includes power and data cables, AC/DC power adapter, and DC plug adapter
Has 9-pin serial connection on PC end, may require USB adapter (Item 366IU9)

3926 **AC/DC Power Adapter**

SpecWare Software

- SpecWare Pro software version 9.6 or later may be used to view Pup data on PC
- If using the SpecConnect Web Portal all data can be viewed online (SpecWare software not required)

3654P9 **Spec 9 Pro Software**

