

# REOTEMP

## INSTRUMENTS

Over 50 years  
manufacturing  
in San Diego,  
CA USA



# COMPOST PRODUCT & PRICING GUIDE



Family owned for the last 30 years, REOTEMP is proud to have a highly skilled American workforce. Our goal is to provide you, our valued customer, with high quality products designed to withstand the harsh compost environment along with excellent service and support.

We understand that your goal is to create high quality compost as quickly and easily as possible. In order to do that, you rely on key pieces of information like pile temperature, % oxygen, and

moisture content. With that in mind, we've focused on building durable, long lasting products that require little maintenance.

We are also continuously looking for better ways to collect compost pile data and develop new products. Some of our latest innovations include our Compost Watch Data Logging App and Digital Compost Probes.

Thank you for your business and Happy Composting!





# COMPOST WATCH™

by REOTEMP Instruments

## DATA LOGGING APP

Use your Tablet or phone  
(iPad or Android)



**Free 30 Day Trial!**

### Features

- Record: Temperature, O2, Moisture, Watering Dates, Turning Dates, & Feedstocks
- Auto-Calculates PFRP Days
- Auto-Calculates VAR Days
- Curing, Active, and Archive Stages
- Dashboard of all Windrows
- Generate/Print Reports
- Export to Excel file
- Up to 7 Readings per Windrow
- Compatibility Requirements:
  - Apple Users - iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch. This app is optimized for iPhone 5.
  - Android Users - Android OS Version 2.2 and above

### Benefits

- Save Time: No Clipboards, No Data Entry, Auto-Generated Graphs, Instant Reports
- Stay Organized
- Remote Access to Data
- Keep Regulators Happy
- Reduce Errors

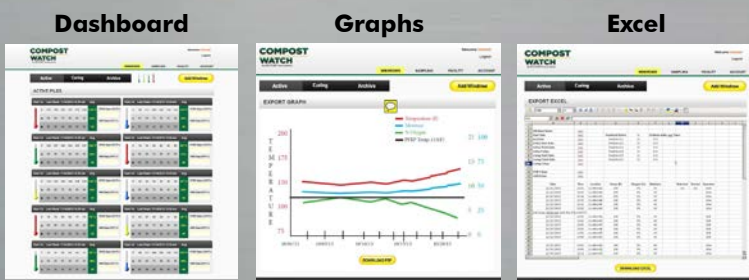
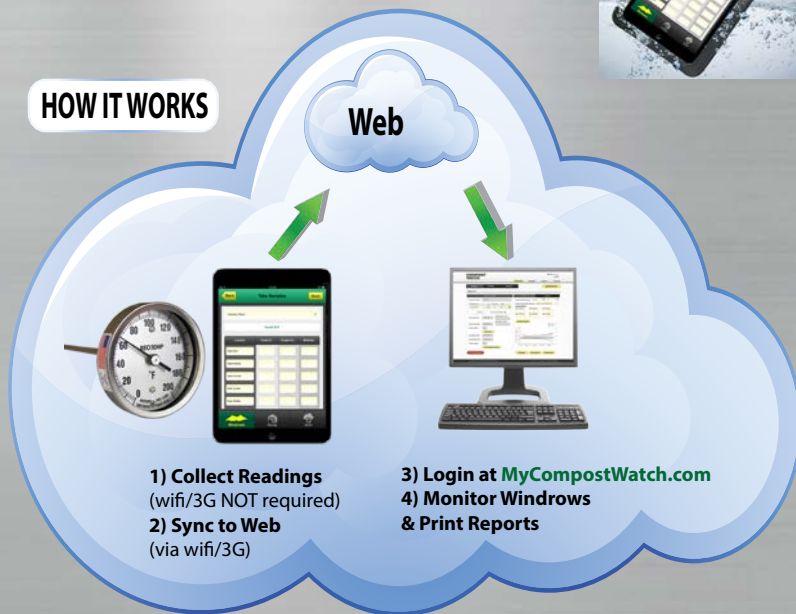


Replacing the need for a clipboard, REOTEMP's Compost Watch App uses a tablet to record the temperature, moisture, and oxygen of all of your windrows. Just use a standard compost thermometer or digital probe to measure the temperature. But instead of writing down the info on a clipboard, you'll type it into your tablet. **Then, with one tap, you're done!** All of the data will be sent to our secure website. You can print reports or export the data into excel instantly!

Waterproof Case Available



### HOW IT WORKS



# COMPOST THERMOMETERS

## HEAVY DUTY THERMOMETER

The Heavy Duty thermometer is our most popular model. It's 5/16" dia. stem is strong enough for the typical industrial composting facility. Add a Probe Handle for easy insertion and to protect the dial. If you need maximum protection from bending, add our Probe Guard.



Model	Description	Price
A24PF-F43	24" Stem, 0 to 200°F	\$99
A36PF-F43	36" Stem, 0 to 200°F	\$119
A48PF-F43	48" Stem, 0 to 200°F	\$159
A60PF-F43	60" Stem, 0 to 200°F	\$209
A72PF-F43	72" Stem, 0 to 200°F	\$259

Features/Benefits
<ul style="list-style-type: none"> <li>• Hermetically sealed dial - won't fog up</li> <li>• Pointed stem for easy insertion</li> <li>• Rugged, all welded stainless steel construction</li> <li>• Unbreakable plastic lens</li> <li>• 3" dial size</li> </ul>

For Celsius (0 to 100°C): change "-F43" to "-C43" • For Dual Scale (0 to 200°F and 0 to 100°C): change "-F43" to "-D43"

**5/16" Stem Diameter**



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## SUPER DUTY/FAST RESPONSE THERMOMETER

The Super Duty/Fast Response thermometer is the best of both worlds, it's stronger and has a faster response time than our heavy duty model. It's a good choice if you need extra strength or are looking to speed up the temperature collection process. Add a Probe Handle for easy insertion and to protect the dial. The Probe Guard is not available on this model.



Model	Description	Price
A24FR-F43	24" Stem, 0 to 200 °F	\$149
A36FR-F43	36" Stem, 0 to 200 °F	\$169
A48FR-F43	48" Stem, 0 to 200 °F	\$209
A60FR-F43	60" Stem, 0 to 200 °F	\$259
A72FR-F43	72" Stem, 0 to 200 °F	\$309

Features/Benefits
<ul style="list-style-type: none"> <li>• Measures temperature 20% faster than HD model</li> <li>• Thicker stem than HD (3/8" dia. vs 5/16" dia.)</li> <li>• Hermetically sealed dial - won't fog up</li> <li>• Pointed stem for easy insertion</li> <li>• Rugged, all welded stainless steel construction</li> <li>• Unbreakable plastic lens</li> <li>• 3" dial size</li> </ul>

For Celsius (0 to 100°C): change "-F43" to "-C43" • For Dual Scale (0 to 200°F and 0 to 100°C): change "-F43" to "-D43"

**3/8" Stem Dia.  
(stronger than HD)**

**1/4" Tip Dia.  
(faster response than HD)**



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## PROBE HANDLE

The Probe Handle is a great accessory. It gives you something to hold onto as you push the probe into the pile or pull it back out. It threads onto the back of the dial (heavy duty or super duty/fast response thermometers).



### Benefits/Features

- Attaches to Heavy Duty or Super Duty/Fast Response probes
- Makes insertion and removal of probe easier
- Protects the dial

Model	Description	Price
FM-0	Probe Handle	\$28.00

## PROBE GUARD

The Probe Guard is a good choice if your compost has large chunks of wood or other material which is likely to cause the stem to bend. The guard consists of a thick walled stainless steel sheath that fits tightly against the HD thermometer stem along with a probe handle for insertion/removal. For use with heavy duty models ONLY.

Model	Description	Price
FM24-16	24" Stem	\$161
FM36-16	36" Stem	\$173
FM48-16	48" Stem	\$194
FM60-16	60" Stem	\$206
FM72-16	72" Stem	\$228



**Purchase online at [www.reotemp.com/compost](http://www.reotemp.com/compost)**



# DIGITAL PROBES

## HEAVY DUTY DIGITAL PROBE

REOTEMP's Digital Probe includes a thermocouple probe and a digital thermometer in one unit. This leaves your hands free to record temperatures on a clipboard, or better yet, record them in our Compost Watch App using your tablet (iPad or android).



Model	Description	Price	Features/Benefits
DP24PFF	24" Stem, heavy duty (°F)	\$345	<ul style="list-style-type: none"> <li>• Type K Thermocouple</li> <li>• Bendable stem</li> <li>• Integrated digital thermometer &amp; handle</li> <li>• Pointed stem for easy insertion</li> <li>• Rugged, welded construction</li> <li>• Frees up your hands</li> </ul>
DP24PFC	24" Stem, heavy duty (°C)	\$345	
DP36PFF	36" Stem, heavy duty (°F)	\$355	
DP36PFC	36" Stem, heavy duty (°C)	\$355	
DP48PFF	48" Stem, heavy duty (°F)	\$375	
DP48PFC	48" Stem, heavy duty (°C)	\$375	
DP60PFF	60" Stem, heavy duty (°F)	\$405	
DP60PFC	60" Stem, heavy duty (°C)	\$405	
DP72PFF	72" Stem, heavy duty (°F)	\$425	
DP72PFC	72" Stem, heavy duty (°C)	\$425	
701KF	Replacement Dig. Therm. (°F)	\$150	<b>Specifications</b> <ul style="list-style-type: none"> <li>• Accuracy: <math>\pm 0.25\%</math>, <math>\pm 1</math> Digit</li> <li>• Resolution: 1°C or 1°F</li> <li>• Battery: Standard 9V</li> <li>• Battery Low: Display B</li> <li>• Range: -50°F to 1000°F or -46°C to 538°C</li> </ul>
701KC	Replacement Dig. Therm. (°C)	\$150	

5/16" Stem Diameter



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## SUPER DUTY/FAST RESPONSE DIGITAL PROBE

REOTEMP's Digital Probe includes a thermocouple probe and a digital thermometer in one unit. This leaves your hands free to record temperatures on a clipboard, or better yet, record them in our Compost Watch App using using your tablet (iPad or android). The Super Duty/Fast Response is the best of both worlds, it's stronger and has a faster response time than our heavy duty model.



Model	Description	Price	Features/Benefits
DP24FRF	24" Stem, super duty/fast response (°F)	\$375	<ul style="list-style-type: none"> <li>• Type K Thermocouple</li> <li>• Bendable stem</li> <li>• Integrated digital thermometer &amp; handle</li> <li>• Pointed stem for easy insertion</li> <li>• Rugged, welded construction</li> <li>• Frees up your hands</li> </ul>
DP24FRC	24" Stem, super duty/fast response (°C)	\$375	
DP36FRF	36" Stem, super duty/fast response (°F)	\$385	
DP36FRC	36" Stem, super duty/fast response (°C)	\$385	
DP48FRF	48" Stem, super duty/fast response (°F)	\$405	
DP48FRC	48" Stem, super duty/fast response (°C)	\$405	
DP60FRF	60" Stem, super duty/fast response (°F)	\$435	
DP60FRC	60" Stem, super duty/fast response (°C)	\$435	
DP72FRF	72" Stem, super duty/fast response (°F)	\$455	
DP72FRC	72" Stem, super duty/fast response (°C)	\$455	
701KF	Replacement Dig. Therm. (°F)	\$150	<b>Specifications</b> <ul style="list-style-type: none"> <li>• Accuracy: <math>\pm 0.25\%</math>, <math>\pm 1</math> Digit</li> <li>• Resolution: 1°C or 1°F</li> <li>• Battery: Standard 9V</li> <li>• Battery Low: Display B</li> <li>• Range: -50°F to 1000°F or -46°C to 538°C</li> </ul>
701KC	Replacement Dig. Therm. (°C)	\$150	

3/8" Stem Dia.  
(stronger than HD)

1/4" Tip Dia.  
(faster response than HD)



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# BACKYARD THERMOMETERS

## BACKYARD COMPOST THERMOMETER

The backyard compost thermometer is perfectly designed for the home composter. It has basic composting instructions printed on the back of the package, temperature ranges on the dial face, and a durable 20" stem that will reach the center of most compost piles or bins.



Model	Description	Price
FG20P-F43	Backyard, 0 to 200°F	\$29.00
FG20P-C43	Backyard, 0 to 100°C	\$29.00

### Features/Benefits

- 20-inch all stainless steel stem
- Hermetically sealed (won't fog up). Can be left in the compost pile over night.
- Basic Composting Instructions!
- Color coded dial (Steady, Active, & Hot Zones)
- 1.8" dial size
- Pointed stem for easy insertion
- Rugged, all welded stainless steel construction
- Unbreakable plastic lens



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# HARD WIRED PROBES

## HARD WIRED PROBE

Hard wired RTD probes use heavy duty wire to physically connect the temperature probe to your PLC or controller. These wires are often over 100 ft long. They are a good option in facilities that desire continuous monitoring at a lower cost than wireless monitoring. Our CPVC sheath protects the stem from corrosion, making it a very rugged and reliable design. A thermocouple version is also available, contact factory.



Model	Description	Price
HW24CPVC__	24" Stem, CPVC Sheath	\$375
HW36CPVC__	36" Stem, CPVC Sheath	\$400 + .50/ft of lead wire
HW48CPVC__	48" Stem, CPVC Sheath	\$425 + .50/ft of lead wire
HW60CPVC__	60" Stem, CPVC Sheath	\$450 + .50/ft of lead wire
HW72CPVC__	72" Stem, CPVC Sheath	\$475 + .50/ft of lead wire

Enter Lead Length (ft)

### Features/Benefits

- Corrosion resistant CPVC sheath
- Hard wire into your PLC or controller
- Extremely rugged & reliable
- Stainless steel T-handle & all welded design
- 72" Marking Flag
- 100 ohm RTD Sensor



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Purchase online at [www.reotemp.com/compost](http://www.reotemp.com/compost)

# OXYGEN PROBES

## OXYTEMP

The OxyTemp allows you to take samples of air from deep within the compost pile and instantly read the % oxygen present. As an added benefit, it will simultaneously take a temperature reading. Both % oxygen and temperature are displayed on the top of the probe on two independent LCD screens. Our probe has QUICK CLEAN technology, which allows you to unclog the tip and then begin sampling again in a matter of seconds.



Model	Description	Price
OXYTEMP24	OxyTemp, 24" Stem	\$2,160
OXYTEMP36	OxyTemp, 36" Stem	\$2,200
OXYTEMP48	OxyTemp, 48" Stem	\$2,240
OXYTEMP60	OxyTemp, 60" Stem	\$2,280
OXYTEMP72	OxyTemp, 72" Stem	\$2,320
ReplyOxy	Replacement O2 sensor	\$150
Repltip	Replacement Tip	\$60

### Features/Benefits

- Oxygen & Temperature in one probe
- Easy to use QUICK CLEAN feature for clogged tip (patent pending)
- Durable S.S. construction
- Replaceable tip
- 2', 3', 4', 5' or 6' stem length
- 1 year limited warranty\*
- Dual electronic display
- Fahrenheit and Celsius selectable
- Built in Handle

**COMPOST WATCH**  
by REOTEMP Instruments



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### Probe Specifications:

#### Overall Specifications

Dimensions (based on 3' stem length): 54" H x 17" W x 3.5" D  
 Weight: 12 lbs  
 Stem Material: Stainless Steel  
 Stem Length: 2ft, 3ft, 4ft, 5ft, or 6ft

#### Oxygen Sensor Specifications

Range: 0 to 100% Oxygen  
 Accuracy: ± 2% Full Scale  
 Display Resolution: 1%

#### Temperature Sensor Specifications

Range: 0/200°F and 0/90°C  
 Accuracy: ± 1% Full Scale  
 Display Resolution: 1°F or 1°C



# WIRELESS TEMPERATURE MONITORING

## ECOPROBE SYSTEM



**EcoProbe**  
(wireless temperature Probe)



**Receiver**



### Recent Wireless Projects



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REOTEMP's EcoProbe™ System wirelessly monitors the internal temperature of your compost piles. It reduces labor costs while increasing efficiency, product quality, and operational control.

The two most important criteria to consider when purchasing a wireless system are **reliability** and **longevity**. With over 20 years in the compost industry, Reotemp has used its experience to design and build an extremely reliable and long lasting wireless temperature monitoring system. When you invest in an EcoProbe System, you ensure years of hassle-free monitoring.

Compost may seem like a fairly harmless media but in reality it's a very harsh, corrosive environment. Reotemp's EcoProbes are built to last. Below are some of the ways we've designed our EcoProbes to withstand this environment:

**Triple Sealed Enclosure:** Our unique enclosure helps probes withstand the demanding wear of a compost site. Wireless probes are subjected to large changes in temperature and (if outdoors) exposed to the weather. An improperly sealed enclosure is prone to open over time, allowing moisture and corrosive atmospheric gases to damage electronic components.

**Non-metal Stem Sheath:** When stainless steel stems are left in compost for days or weeks at a time, they are very likely to corrode and pit. In a few months, this corrosion can eat all the way through the stem and cause probe failure. To prevent this corrosion, Reotemp has designed a unique non-metal sheath which completely encases the inner stainless steel stem. Our design prevents corrosion, while maintaining proper heat transfer.

### Features/Benefits

- Dual temperature sensors give a detailed picture of your windrow temperature (the first 1" above the tip, the second 38" above the tip)
- Long battery life: 1.5 years (15 minute sampling frequency)
- Field proven in some of the harshest composting applications in the industry
- Suitable for outdoor, tunnel, and indoor facilities
- Point-to-point wireless topology
- 70" fluorescent orange flag for high visibility
- 1,000 ft (line of sight) range, repeater available for longer distances
- Large vinyl probe ID labels allow easy identification
- Easy PLC system integration (Modbus, DeviceNet, Ethernet/IP)
- 2 Year Limited Warranty
- Made in the USA at Reotemp's San Diego facility

**Questions?** Contact Nathan O'Connor at [noconnor@reotemp.com](mailto:noconnor@reotemp.com) or Ph (858) 784-0716. You can also find more information at [www.reotemp.com/ecoprobe](http://www.reotemp.com/ecoprobe)

### PC Software



**Purchase online at [www.reotemp.com/compost](http://www.reotemp.com/compost)**

# MOISTURE METERS

## LONG STEM MOISTURE METER

The REOTEMP® Moisture Meter is a self-calibrated instrument. The meter indicates the moisture content of your compost pile or soil sample by means of a sensor at the bottom of the probe. The probe is sensitive only at the tip. Calibrate the instrument by inserting the tip into an ideal sample of compost or soil and adjusting the needle to a "5" on the 0 to 10 scale. Then, the next time you insert your Moisture meter you'll know relative to your ideal moisture content whether your soil is too dry or too wet. It will NOT give you a % moisture content. The meter is sensitive to changing salt content and can be used to track leachate. Used by composters, farmers, and nurseries across country.



Model	Description	Price	Features/Benefits
MM24	Moisture Meter, 24" stem	\$97	<ul style="list-style-type: none"><li>• Battery included (one AA)</li><li>• Perfect for municipalities and large-scale compost operations</li><li>• Relative 0-10 reading (not % moisture)</li></ul>
MM36	Moisture Meter, 36" stem	\$106	
MM48	Moisture Meter, 48" stem	\$133	
MM60	Moisture Meter, 60" stem	\$159	

## BACKYARD MOISTURE METER



The Backyard Moisture Meter has a shorter stem than the long stem version and does not include a tee handle for insertion, but it uses the same principle as the long stem model. It is also a self-calibrated instrument. The meter indicates the moisture content of your compost pile or soil sample by means of a sensor at the bottom of the probe. The probe is sensitive only at the tip. Calibrate the instrument by inserting the tip into an ideal sample of compost or soil and adjusting the needle to a "5" on the 0 to 10 scale. Then, the next time you insert your Moisture meter you'll know relative to your ideal moisture content whether your soil is too dry or too wet. It will NOT give you a % moisture content. The meter is sensitive to changing salt content and can be used to track leachate. Used by composters, farmers, and nurseries across country.

Model	Description	Price	Features/Benefits
MM17	Moisture Meter, 17" stem	\$31	<ul style="list-style-type: none"><li>• 17" stainless steel stem</li><li>• Battery included (one AAA)</li><li>• Easy-to-use instructions (on back of package)</li><li>• Perfect for home composting, schools, &amp; community programs</li><li>• Relative 0-10 reading (not % moisture)</li></ul>

## REOTEMP WARRANTY

We warrant bimetal dial compost thermometers, thermocouple probes, probe guards, moisture meters, data loggers, and oxygen probes against defective materials or workmanship under normal use and service for 1 year following date of shipment. We warrant digital thermometers for 90 days from date of shipment. We warrant the EcoProbe system (wireless temperature monitoring) for two years from the date of shipment. This warranty does not cover exposure to corrosive materials, temperatures in excess of those recommended, excessive vibration, or forces or abrasions that cause bending or unsealing of the case or stem.

For all international compost orders (excluding Canada), the customer is responsible for the cost of shipping product(s) back to REOTEMP's factory. Upon inspection, if the product is covered under the stated warranty, then REOTEMP will repair or replace the product(s) and cover the cost of shipping back to the customer.

REOTEMP guarantees the products will perform within the cataloged performance specifications if used within specified parameters. Determination of defect or failure will be made at REOTEMP or at a certified test facility. Warranty is limited to replacement or repair at factory. This warranty is expressly in lieu of any other warranty, expressed or implied, and of all other obligations or liability on our part for damages, including but not limited to, consequential damages arising out of use or misuse of our instruments, and we neither assume nor authorize anyone to assume for us, any other liability in connection with the sale of our instruments or sensors. Suitability of product for the customer's application rests with the customer; REOTEMP does not warranty suitability of its product(s) for the application selected by customer.

REOTEMP reserves the right to make product improvements and change its specification stated at anytime without notification. Please contact the factory on all critical dimensions and specifications for verification.

## CONTACT

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