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.

Thank you for your business and Happy Composting!









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
- Hermetically sealed dial - won't fog up
- Pointed stem for easy insertion
- Rugged, all welded stainless steel construction
- Unbreakable plastic lens
- 3" dial size

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

MADE IN THE USA | ACCURACY | COMPATIBLE | COMPATIBLE

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
- Measures temperature 20% faster than HD model
- Thicker stem than HD (3/8" dia. vs 5/16" dia.)
- Hermetically sealed dial - won't fog up
- Pointed stem for easy insertion
- Rugged, all welded stainless steel construction
- Unbreakable plastic lens
- 3" dial size

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)

MADE IN THE USA | ACCURACY | COMPATIBLE

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).

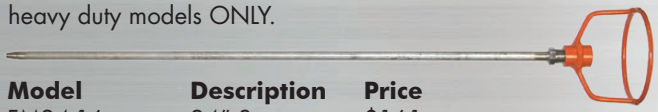


Benefits/Features
- Attaches to Heavy Duty or Super Duty/Fast Response probes
- Makes insertion and removal of probe easier
- Protects the dial

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

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.



Model	Description	Price
DP24PFF	24" Stem, heavy duty (°F)	$345
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
701KC	Replacement Dig. Therm. (°C)	$150

Features/Benefits
- Type K Thermocouple
- Bendable stem
- Integrated digital thermometer & handle
- Pointed stem for easy insertion
- Rugged, welded construction
- Frees up your hands

Specifications
- Accuracy: ± 0.25%, ± 1 Digit
- Resolution: 1°C or 1°F
- Battery: Standard 9V
- Battery Low: Display B
- Range: -50°F to 1000°F or -46°C to 538°C



5/16" Stem Diameter

MADE IN THE USA

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. 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
DP24FRF	24" Stem, super duty/fast response (°F)	$375
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
701KC	Replacement Dig. Therm. (°C)	$150

Features/Benefits
- Type K Thermocouple
- Bendable stem
- Integrated digital thermometer & handle
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- Accuracy: ± 0.25%, ± 1 Digit
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- Range: -50°F to 1000°F or -46°C to 538°C

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



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

MADE IN THE USA

WIRELESS TEMPERATURE MONITORING

MADE IN THE USA

ECOPROBE™ SYSTEM

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.



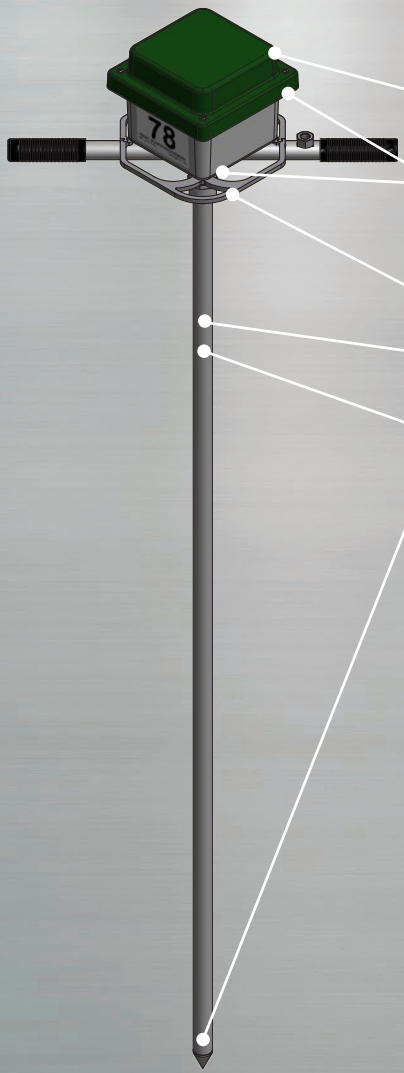
With over 20 years in the compost industry, REOTEMP has used its experience to design and build the most **durable** and **reliable** probe on the market. When you invest in an EcoProbe System, you ensure years of hassle-free monitoring.

Customized Wireless Technology: Reotemp partnered with a wireless company who specializes in industrial radio transmissions. Our system uses custom designed radio modules and receivers, as well as site-specific antennas and the 902-928 MHz frequency. All of which makes the system far more reliable than "off the shelf" components some competitive probes use.

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
REOTEMP Wireless Technology	1,000ft range standard, repeater available for longer range
REOTEMP Proprietary Triple Sealed Enclosure (NEMA 4X)	Helps keep the harshest elements out of the head, for a long lasting probe at outdoor, indoor and tunnel facilities
Roll Cage	Prevents damage to the head
CPVC Sheath	Withstands even the most corrosive biosolids
Dual Temperature Sensors	Provides a temperature profile inside the pile, 1" from the tip and 38" from the tip
Long Battery Life	1.5 years of use at 15min sampling
PLC System Integration	Easily integrates with Modbus, DeviceNet, Ethernet/IP
60" Orange Locator Flag	Prevents mishaps from losing sight of the probe
2 Year Limited Warranty	



Recent Wireless Projects



Purchase online at www.reotemp.com/compost

ECOPROBE™ RECEIVER/ANTENNA

REOTEMP's EcoProbe™ System is customized to meet your facilities unique needs. REOTEMP's proprietary wireless system can be customized to increase transmitting power for even the largest of facilities.



Antenna

Each facility has its own unique layout and setup, which means we'll need to customize the antenna we use to fit your needs. On any application we use only high quality antennas that are above and beyond what is needed. This ensures you'll have consistent readings. It also accounts for the occasional interference typically found on composting sites (large equipment driving between probes and the receiver antenna, probes at various angles, etc.).



Receiver

REOTEMP's Terminal Receiver organizes data packets from EcoProbes located in the field. Typically, the receiver is mounted to an internal wall of the control building. The Receiver is either hardwired into the PLC or wirelessly transmits its data to a personal computer.

ECOPROBE™ PLC & PC SOFTWARE

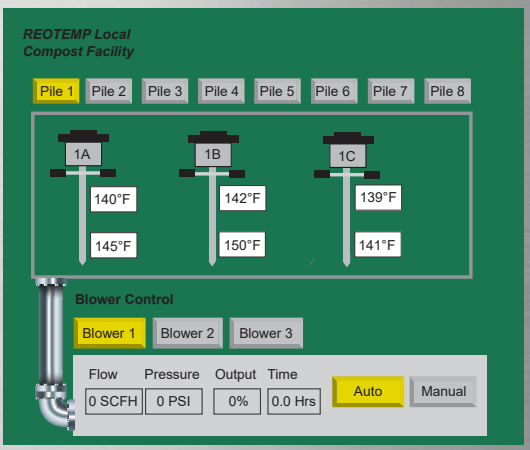
For PLC systems, REOTEMP partners with a 3rd party to create and customize HMI software to your facility. For PC systems, REOTEMP offers its own windows-based software called Compost Watch™.



Compost Watch™ PC Software

Compost Watch™:

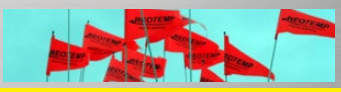
- Displays live temperature readings as they come in from the radio link.
- A log history of the readings: history can be viewed graphically or exported into standard windows applications such as Excel.
- Support: Unlimited phone support. We stand behind our products.
- Data Range Selector: with quickset or custom date ranges.
- Low & High temperature warnings
- Low & High temperature alarms
- Online/Offline indicator light
- Battery status indicator light
- Temperature Chart
- Temperature Table



Example HMI Screen for PLC System

HMI screens are created to your specifications and can include blower controls as well as automated programs.





Questions? Contact Nathan O'Connor at noconnor@reotemp.com or (858) 784-0716.
Find out more at www.reotemp.com/ecoprobe

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 temperaure 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 Stainless Steel 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

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 (Selectable)
Accuracy:	± 1% Full Scale
Display Resolution:	1°F or 1°C

Calibration:

Use black calibration knob to calibrate the OxyTemp to 20.9% in ambient air.

MADE IN THE USA



Purchase online at www.reotemp.com/compost

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.

Features/Benefits

- Thick 1/4" Diameter Stem for Higher Durability
- Hermetically Sealed: Won't Fog Up. Can be Left in the Compost Pile Over Night
- Composting Instructions: Included to Get You Started
- Read at a Glance Dial: F or C with 3 Temperature Zones that Indicate Compost Activity - Steady, Active and Hot
- 1.8" Dial Size
- Rugged, all Welded Stainless Steel Construction
- Unbreakable Plastic Lens



1% ACCURACY





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

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
- 60" Marking Flag
- 100 ohm RTD Sensor

MADE IN THE USA

1% ACCURACY

MOISTURE METERS

LONG STEM MOISTURE METER

The REOTEMP® Moisture Meter allows you to measure relative moisture deep within a large compost pile. 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. Note that this is not 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 the country.





Features/Benefits

- Perfect for Municipalities and Large Compost Operations
- Calibrates to Your Soil or Compost, 0-10 Wetness Scale
- Powered by One AAA Battery (Included)

Model	Description	Price
MM24	Moisture Meter, 24" stem	$97
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 is perfect for a backyard compost pile or gardeners looking to measure the relative moisture of their soil. 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.



Features/Benefits

- Easy to Operate for Home Composers, Gardening, Schools & Community Programs
- Rugged Metal Construction
- Long 17" Stem with Thick 5/16" Diameter
- Powered by One AAA Battery (Included)
- Calibrates to Your Soil or Compost, 0-10 Wetness Scale

Model	Description	Price
MM17	Moisture Meter, 17" stem	$31

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.

YouTube Search for "Reotemp Compost" on YouTube!

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CPPG-1215

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