T-TEC 7 Data Logger for Compost

T-TEC 7 are battery powered instruments with display of actual temperature and a memory for collection of data. The data logger is connected to a PC to start the logger and to download collected data. In can work unattended during the measurement phase. Graphic software provides options for initial settings and for extracting of information. Graphs from up to 8 different locations may be called up simultaneously.

The T-TEC 7 3E with remote sensor has unique features for use in connection with measurements on compost: The instrument is very sturdy and it is watertight for outdoor use. (A shade is recommended, because the casing is transparent and strong sun may increase the internal temperature in the casing to above the 60 deg.C max. temperature for the display.)
The logger has two visual alarms which may be set to max and or minimum when the logger is started. A grace time may also be set.

It is therefore possible to follow the actual temperature in the compost and also see directly if for instance, the temperature has exceeded 55 deg.C. in 3 days. The measurements are also kept in the memory of the instruments and may be downloaded to a computer. The T-TEC software can then show the data as a graph or in table form for documentation.

A suitable sensor for use in compost could be the T-TEC T1/Compost which is has a 900 mm long stainless tube with the sensor at the tip, a handle and six meters of Teflon cable with connector for the T-TEC data logger.

Specifications for the T-TEC data logger:

Casing: Polycarbonate, watertight to IP68
Size: 65x31x106mm   .
Weight: 115 g
Ambient: -40+60 deg.C for instrument
Battery: 1/2AA. Expected life: 1 to 2 years.

Measurements: Intervals between measurements
                 may be set from 1 sec to 6 hours.
Memory: 12,000 plus measurements.
                 E.g., 8 days @ 1 minute or
                 42 days @ 5 minute intervals.

Accuracy: Time +- 1 min per month
Temperature: -40 + 0 deg.C +- 0.3 deg.C
                 0 + 70 deg.C +- 0.2 deg.C
             +70 +100 deg.C +- 0.4 deg.C

Resolution: Better than 0.1 deg.C over most of the range