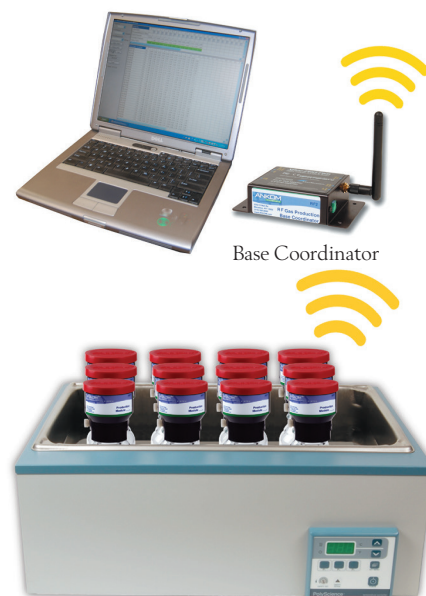


## ANKOM<sup>RF</sup> GAS PRODUCTION SYSTEM

### Wireless Gas Production Measurement

- Measure and Monitor Changes in Gas Pressure from Microbial Activity
- Real-Time Graphing of Pressure and Temperature Curves
- Automatic Vent Release Control
- Gas and Liquid/Sludge Sampling Capability
- Modular and Expandable (up to 50 Modules Per System)
- Multiple Applications:
  - Ruminant Nutrition
  - Bio-energy/Bio-fuel
  - Yeast Activity/Dough Rising
  - Biodegradability of Waste
  - Human Digestion
  - Soil Analysis

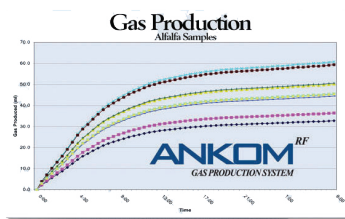
The ANKOM<sup>RF</sup> Gas Production Measurement System provides an easy-to-use method for monitoring and measuring gases produced during anaerobic or aerobic digestion. The system consists of sample bottles in 100ml, 250ml, 500ml and 1000ml sizes. All sample bottles can be fitted with an optional septa port which can be used for sampling liquid during operation or as an alternative method for sampling gas from the head space. The RF Base Kit (RFS) includes five wireless digestion modules (RF1) capable of measuring pressure and temperature, a reference module which records ambient pressure, a wireless base coordinator, operational software (Windows XP™ or later required), rechargeable battery packs, a ten battery pack charging station and additional fittings. The pressure (or vacuum) created in each bottle and the temperature of the module's environment are monitored and recorded at user selected intervals. As individual pressure and temperature data points are generated they are recorded on standard Microsoft Excel spreadsheets for easy analysis and graphing. Real-time graphing is also provided during operation for instantaneous feedback on the process. The user can select temperature in °C or °F and pressure in psi or mbar. The system can be used for any application requiring measurement of gas production, vacuum, and/or temperature.



ANKOM Technology can support your needs for water baths and laptop/PC's as needed. Ask for details.

*Helping To Feed The World!*

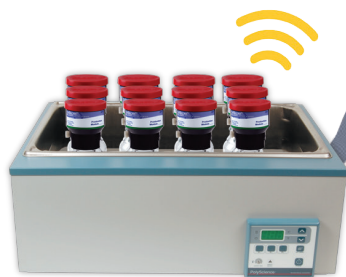
# Specifications



Easy Data  
Conversion  
to Gas  
Production  
Curves



2-Way RF  
Communication



RF Data  
Collection  
up to 100'

Low Cost Starter Kit Available!



RF sensors communicate with a computer (not included) to capture data based on user selected parameters. The software allows individual control for each module to include: frequency of sensor readings, pressure release points, measurement units (psi or mbar), and temperature sensor calibration. The software provides auto graphing capability for observing real-time results.

### Product Specifications:

#### Measuring Principle:

Manometric

#### Cumulative Pressure Range:

-10.0 to 500.0 psi  
(bar equivalent included)

#### Accuracy:

± 1% of measured value

#### Resolution:

± 0.04

#### Module Height:

w/250ml bottle 20.3 cm

w/500ml bottle 24.1 cm

w/1000ml bottle 29.1 cm

#### Diameter (without bottle):

7.2 cm

#### Jar Capacity:

100ml, 250ml, 500ml and  
1000ml available

#### Temperature Sensor:

± 2° C

## Helping To Feed The World!

ANKOM Technology is the developer of Filter Bag Technology (FBT) used around the world for fiber and fat analysis. With customers in over 97 countries, ANKOM has a reputation for quality and innovation. Constantly seeking to develop better methods for time-consuming analytical methods, ANKOM Technology focuses on customers' needs. We offer instruments, chemicals and other ancillary products to support fiber studies, crude fat extraction, total fat extraction, *in vitro* and *in situ* research and more. We work hard to keep costs low with quality and service high.

# ANKOM

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