



GSM Modem (GPRS/SMS)

Tekelek's GSM modem is compatible with the Tekelek liquid and gas fuel level tank sensors, and with the residential burner lockout/temperature sensor, providing reliable communications to the Tekelek remote server monitoring system (RMS) that monitors the tank fuel levels, central heating burner operation, and room temperatures.

With turnkey development, it could be used with other OEM wireless sensors to relay data to a 3rd party server/webserver application.

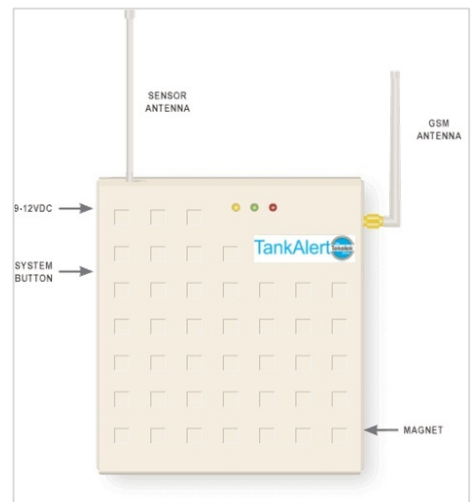
Applications

- Remote monitoring with Tekelek sensors of:
 - Burner lock-out
 - Room temperature
 - Fuel tank liquid level
 - LPG/Propane tank level
- General remote monitoring of OEM wireless (433/914 MHz) sensors – contact Tekelek



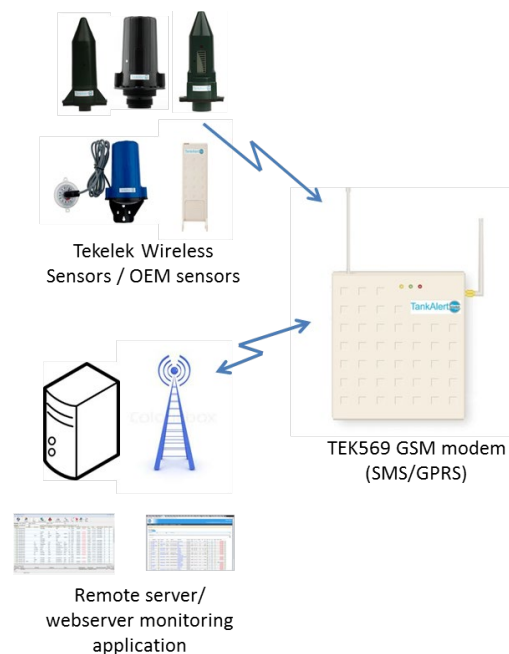
Benefits

- Enables sensors to be remotely monitored
- Monitor up to 6 sensors
- Mix and match sensors to your needs
- Delivers data at a determinable schedule
- Immediate threshold broken notification (High/Low/Fill or Drain)
- Powered by standard 9v mains to DC power supply
- Optional Battery Backup
- 914/433 MHz versions available for global use
- Quad band GSM module (850/900/1800/1900 MHz)
- GPRS or SMS operation
- Can be configured and interrogated via RMS software or a standard mobile phone
- Compatible with current and future Tekelek sensors
- Use with OEM sensors possible – contact Tekelek



Specification

Characteristic	Parameter
Dimensions	107mm (W) x 25mm (D) x 120mm (H) 4.21" (W) x 1" (D) x 4.72"(H) excluding antennas
Weight	200g/0.44lbs
Housing Material	ABS
Operating temperature	-10°C to 60°C/14°F to 140°F
Storage Temperature	-20°C to 60°C/-4°F to 140°F
Humidity range	20% to 80% non-condensing
Altitude range	<2Km/1.25miles above sea level
Environmental Protection	Indoor use only
Radio frequency	433.92 MHz FM (EU/UK/NZ/AUS) or 914.5 MHz FM (USA) options available
Receiver sensitivity	-100dBm to -110dBm @ 0.001 BER
Sensor to Modem Radio range	200m (433.92MHz) / 150ft (914MHz) with Tekelek sensors
GSM module	2G Quad band 850/900/1800/1900
Power requirements (DC)	Mains (110VAC or 220VAC) to DC separate supply required. 9V Unregulated 500mA
PSU DC jack size	2.5mm/0.1"
Status indication	Three LEDs, Green, Amber & Red indicate status regarding sensor synchronisation, sensor activity, GSM activity, and power.
Sensor synchronisation	Integrated magnet to activate Tekelek sensors into teach mode
Server system connection	Push button to force off schedule server contact during installation



Conformity

EU/UK/NZ/AUS variants meet the intent of Directive 89/336/EEC for Electromagnetic compatibility and the Low voltage directive 73/23/EEC for product safety and the R&TTE directive 1999/5/EC for radio. Compliance was demonstrated to the following specifications as listed in the official journal of the European Communities. USA variants compliant to FCC part 15 in UL approved test facility.

EN 55022,A1,A2	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.
EN 61000	Electromagnetic compatibility
EN 55011	Industrial, scientific and medical (ISM) radio-frequency equipment
EN 60335-1	Safety of household and similar appliances
EN 300 220-3	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD);
ETSI EN 301 489-1	ERM and EMC standard for radio equipment and services Part1
ETSI EN 301 489-3	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC)
ETSI EN 301 489-7	Electro-magnetic Compatibility and Radio Spectrum Matters (ERM); Electro-magnetic Compatibility (EMC) Standard for Radio Equipment and Services; Part 7: Specific Conditions for Mobile and Portable Radio and Ancillary Equipment of Digital Cellular Radio Telecommunications Systems (GSM and DCS)
RoHS Compliance	Yes
FCC part 15 compliance	USA variant