Broadband/Internet Protocol (IP) Modem

Tekelek's IP 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
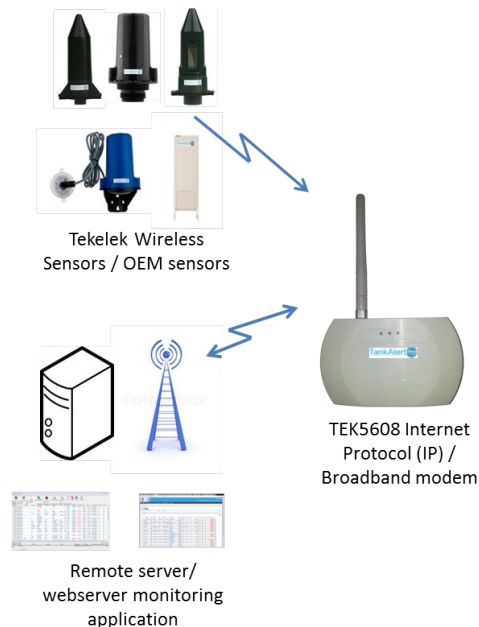
Benefits

- Enables sensors to be remotely monitored
- Monitor up to 8 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 (supplied with modem)
- 433/914 MHz versions available for global use
- Connects to spare RJ45 port of broadband router (RJ45 cable supplied with modem)
- Can be configured via RMS software
- Wall mount or desk mount
- Compatible with current and future Tekelek sensors
- Use with OEM sensors possible – contact Tekelek

DS-5029-02

Specification

Characteristic	Parameter
Dimensions	120mm(4.7")(W) x 25mm(0.98")(D) x 72mm(2.8")(H) excluding antenna
Weight	100g/0.22lb
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/1.25 Miles 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(656ft) (433.92MHz) / 150ft (914MHz) with Tekelek sensors
Power requirements (DC)	Mains (110VAC or 220VAC) to DC separate supply required. 9V Unregulated 30mA
PSU DC jack size	2.5mm / 0.1"
Status indication	Three LEDs, Green, Amber & Red indicate status regarding sensor synchronisation, sensor activity, IP 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

Tekelek Wireless Sensors / OEM sensors

TEK5608 Internet Protocol (IP) / Broadband modem

Remote server/ webserver monitoring application

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 301 489-3	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC)
RoHs Compliance	Yes
FCC part 15 compliance	USA variant

WEEE Reg. 00232
Patents granted

Tekelek, Shannon Free Zone, Shannon, Co. Clare, Ireland
Tel : +353 (0)61 471511 | **Fax:** +353 (0)61 471685
E-mail: sales@tekelek.com | **Web:** www.tekelek.com