# Sensoteq

# Gateway S Datasheet

The Sensoteq® product range is used to continuously monitor your rotating equipment in different environments. Reporting key parameters to our cloud based Sensoteq Analytix® platform.



The Sensoteq® Gateway S has been specifically developed to receive data from our Kappa and Tau product ranges.

The gateway provides connectivity for Kappa and Tau product families to Analytix via Wi-Fi, Ethernet, Cellular or Industrial protocols.

| Product Highlights |
| --- |
| Connects to Kappa and Tau sensors |
| Range of communication options |
| Easy setup and installation |
| High gain antennas |
| Waterproof (IP55) |

| Product Variant | |
| --- | --- |
| **G4c-01** | |
| G4W-01 | 2.4GHz Wi-Fi |
| G4C-01 | LTE Cat1-2G/3G/4G (RoW) |
| G4L-01 | LTE Cat-M1 (North America) |

| Mechanical | |
| --- | --- |
| **Physical** | |
| Material | Aluminium (6000 series) |
| **Environmental** | |
| Operating Temperature | -20 to 85°C (-4 to 185°F) |
| Storage Temperature | -20 to 85°C (-4 to 185°F) |
| Sealing | IP55 |
| Shock | 20g |

| Power Supply | |
| --- | --- |
| Input Voltage | 12vdc Nominal<br>9vdc minimum<br>24vdc maximum |
| Current | < 0.5 amp nominal<br>2.0 amp peak |
| Connection | 2-pin IP55 |
| Power Supply | Standard 1.5m cable with plug with multi-region adapter.<br><br>Power over Ethernet (PoE) |

| Communication | |
| --- | --- |
| **Sensor to Gateway** | |
| Effective Range | 250m Line-of-Sight *[1] |
| Frequency | < 1GHz ISM Band |
| Sensoteq Channel | Channel 1 or 2 |
| **Gateway to Cloud** | |
| Communication Option | Dual Band Wi-Fi (2.4GHz/5.0GHz)*[2] |
| | Cellular (2G/3G/4G) (900/1800/1900/2100/2600MHz) |
| | Ethernet |
| **Gateway to Local System** | |
| Communication Option | Modbus TCP *[3] |
| **Wi-Fi** | |
| Frequency | 2.4GHz IEEE 802.11 a/b/g/n<br>5GHz |
| Protocol | CoAP over TCP |
| Encryption | AES |
| Authentication | RSA public/private keys |

*1 – Wireless performance may be impacted by environmental obstructions.

*2 – If necessary, consult your IT administrator regarding network security.

*3 –Modbus TCP system provided separately.

| Environmental | |
| --- | --- |
| **Ambient Temperature** | |
| Temperature Range | -20 to 85°C (-4 to 185°F) |

| Data Accuracy and Resolution | |
| --- | --- |
| Temperature Accuracy | ±0.1°C |

| Dimensions | |
|---|---|
| **Standard – DIN Rail Bracket can be removed** – See DOC-00499 for Installation Guidelines | |
| Dimensions | See below |
| Weight | 1000g (±20g) |