

AUTOMATION AND REMOTE METER READING

LoRaWAN Gateway

PRODUCT OVERVIEW

Atlas LoRaGateway LR-1 is a gateway used to collect data in LoRaWAN-based meter and wireless sensor networks. It connects devices to the data collection infrastructure in smart meter reading, irrigation and remote field monitoring projects.



TECHNICAL SPECIFICATIONS

Model type	Atlas LoRaGateway LR-1
Applications	Smart grid, smart meter reading, agricultural irrigation, IoT, M2M, wireless sensors, alarm and security systems
Infrastructure features	LoRa long-range communication, one-way/two-way communication, simultaneous data reception
Connection interfaces	GSM, Ethernet, RS485, Wi-Fi
Operating frequencies	EU433, CN470-510, CN779-787, EU863-870, US902-928, AU915-928, AS923, KR920-923
Communication range	Catalogue value of 15 km in open areas; depends on the antenna, line of sight, interference and radio settings. Field verification is required.
Signal power (TX)	Catalogue hardware maximum of 25 dBm; usable power must be verified according to the hardware version and the conditions in the country of installation.
Sensitivity (RX)	Catalogue value of -140 dBm; must be verified for the bandwidth, spreading factor and receiver configuration used.
Power supply	12 - 24 Volt, 2 Ampere

Technical values summarise the product family. Options, dimensions and operating limits must be confirmed for the selected model.