



Reliable Performance

NIPPEN ELECTRICAL INSTRUMENTS CO.



Connecting the **WORLD** with **NIPPEN IoT**

Overview

Nippen GPRS-4G-W is a powerful plug & play IoT gateway suitable for remote monitoring and automation. Nippen GPRS-4G-W has the capability of integrating seamlessly with almost every sensor or controlled via Modbus RS 485 where it periodically collects the data from sensors & communicates with cloud in real time via channels like 4G, Wi-Fi & Ethernet. GPRS-4G-W supports over the air configurations and firmware updates,

Application Areas



Energy Meter Monitoring



PLC Monitoring



Air Quality Monitoring



AC & HVAC Control



Water Flow Monitoring



Temperature & Humidity Monitoring



Pump & Valve Control



Level Monitoring

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Specifications

GSM FREQUENCY	LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL) LTE TDD: Max 130Mbps (DL)/Max 30Mbps (UL)
GPRS	EDGE: Max 296 K bps (DL)/Max 236.8 K bps (UL)
SIM Interface	Internal SIM 1.8V & 3V
Transmit Protocol	TCP, HTTP , MQTT
OTA	Firmware Updating via GPRS
Antenna	External 3 meter extendable antenna

Electrical Standard	TTL or RS232 or RS485
RS485 Port	Multiple Modbus Slave Device Connection
RS -485 Modes	Transparent / Modbus Polling Formatted (ASCII/HEX/RawHEX) with configurable baud rate

Input Port	2 Channel (0 to 24V) Analog/Digital Input (optional)
Analog Port	1 Channel 4 to 20 mA (optional)
LED Indicator	Power, GSM, Modbus Communication Status
Connector	5 mm Micro-Fit connectors

Dimension	100mm x 85mm x 24mm (L x W x H)
Weight	160 grams
Operating Voltage	10V - 32V DC
Operating Temperature	-10C to +55C