ConnectLinks
NEVER MISS A BEAT

LITE RANGE

MODBUS IOT GATEWAY LITE — BATTERY 4G

Your meter on the cloud. No mains, no cable.

It sleeps, wakes on your schedule, reads the meter over RS-485 and stores every reading. A few times a day it sends them over 4G to your own MQTT broker, then goes back to sleep.

Model **CL-L-M-S/C** battery powered · 4G LTE Cat 1 · MQTT/TLS

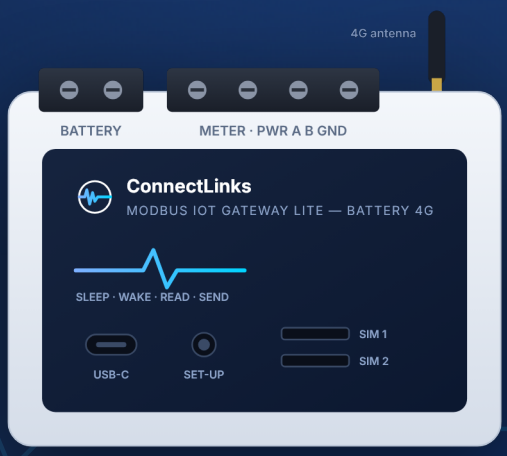

Illustration · front panel and connectors

4 meters on one RS-485 port, up to 32 values in all

16 MB of readings kept until your broker confirms them

1 min–7 days between readings, set to suit the site

3 ways to change settings: USB on site, SMS or MQTT

From a remote meter to your platform

Borewell, pump house, canal or tank, wherever there is no power

YOUR FIELD
Flow, level and pressure meters
RS-485 Modbus RTU
powered only to read

→ reads every 1 min – 7 days

THE GATEWAY
Wakes, reads, stores, sleeps; sends a few times a day
time, quality, battery
on every reading

⇢ 4G LTE MQTT/TLS

YOUR BROKER
Your own MQTT broker and platform
data, health, settings

Nothing is deleted early. A reading leaves the flash only after the broker confirms it.

A health report with battery, signal and backlog comes in every session.

Why it earns its place on site

Built to be left alone
It sleeps between readings and powers the modem only to send, so the battery goes to the job, not to idling.
deep sleep · modem on only to upload

Any Modbus meter, no firmware
Set the registers and data types for your meter in the field. No special build, no waiting on us.
4 devices · 32 values · 13 data types

No reading lost
Each reading is stored before it is sent and kept until the broker confirms it, even through a power cut.
16 MB flash · MQTT QoS 1

True reading times
Readings taken before the clock is set are held and sent with their real time. A time is never invented.
network time · held until known

Change settings without a visit
Send a change by SMS or MQTT. If a change cuts the unit off from your broker, it undoes itself.
allowed numbers + PIN · automatic revert

Your SIM, your broker
No ConnectLinks account and no subscription. Fit a second SIM if you want a backup network.
nano-SIM · optional second SIM

BUILT FOR • Borewells and pump houses • Canal and irrigation metering • Remote tank levels • Water-supply flowmeters

FIELD SIDE

RS-485	1 port, Modbus RTU master, read-only
Serial	1,200–115,200 bit/s · 8N1, 8E1, 8O1, 8N2
Devices	Up to 4, with up to 32 values in all
Functions	Read 01, 02, 03, 04 · 13 data types
Meter power	Switched on by the gateway only while reading

CLOUD SIDE

Cellular	4G LTE Cat 1, India and APAC bands · external antenna
SIM	Nano-SIM able to receive SMS · optional second SIM with failover
Protocol	MQTT 3.1.1, QoS 1 · TLS 1.2 on port 8883 · user name and password
Topics	Data, health and settings · your own prefix

SCHEDULE AND STORAGE

Reading	Every 1 minute to 7 days
Upload	A multiple of the reading interval, at least once a day
Session	Modem time limited to 120–600 s per upload
Storage	16 MB flash · sent oldest first, deleted only once confirmed

SET-UP AND SERVICE

Configurator	Windows application over USB-C, opened by a 5 s button hold
By SMS	Up to 3 allowed numbers and a PIN
By MQTT	Settings topic, checked before use, reverted if the unit is cut off
Firmware	Signed update over 4G, started on site, automatic rollback

SECURITY

Network	No listening port; the gateway only connects out
Firmware	HMAC-SHA256 and CRC-32 checked; no downgrade
SMS	3 wrong PINs lock SMS changes for 24 h
Reset	No factory reset from a distance

POWER

Supply	Battery powered, no mains needed
Sleep	Deep sleep between readings; modem off between uploads
Monitoring	Battery voltage measured at rest and under load, reported every session

Find the right Lite product for your site

Mains power and many devices, to your cloud over 4G
Modbus IoT Gateway Lite — 4G
CL-G-M-S/C

The site has a network and you want no SIM
Modbus IoT Gateway Lite — Ethernet
CL-G-M-S/E

Your SCADA reads RS-485 devices over the LAN
Modbus RTU-to-TCP Bridge Lite
CL-B-M-S-2

Modbus devices in your building management system
Modbus-to-BACnet Bridge Lite
CL-B-D-S-2

ORDER CODE

CL-L-M-S/C

Battery gateway, 4G LTE Cat 1 for India and APAC, Configurator software

EVALUATION UNIT

Full function for 30 days. When it ends the unit keeps reading and storing; after activation on site it sends everything it kept.

LICENSED UNIT

Permanent from delivery, no key to enter.

Tell us about your site

connect-links.com · sales@connect-links.com · +91 98200 10221

Preliminary, for evaluation; specifications may change without notice. Battery life depends on the battery, the intervals and the site; ask us for an estimate for your installation. Full specification and user manual on request. ConnectLinks Systems · Brochure 1.0 draft · November 2026