

Loggs

reliable
partner



**STRONGEST IN
FINLAND GOLD**
Loggs Oy
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LOG-LR08

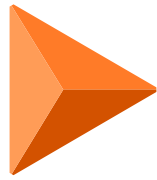
MANUAL AND TECHNICAL DETAILS



TEMPERATURE & HUMIDITY SENSOR WITH LONG RANGE

SERVICE INCLUDES:

**Cloud service with unlimited users and storage.
Mobile application for data management.**



Loggs

Log-LR08 – Accurate Real-Time Monitoring

With the precise and user-friendly Log-LR08 measuring device, you can collect temperature and humidity data in real-time. All data is automatically stored in the Loggs Cloud service, where you can set custom alerts for specific threshold values and analyze historical measurement data. Log-LR08 is EN12830, EN13485, EN13486 certified.

Long Battery Life

The device's battery life ranges from 1 to 5 years, depending on the transmission frequency and environmental conditions. For example, with the default 15-minute measurement interval, the battery lasts approximately 2 years. By setting a low-battery alert threshold, you can ensure the battery is replaced well in advance.

Reliable Connectivity

The Log-LR08 transmits data via a private LoRa network, connecting to a Cloud-Link LR gateway acting as a base station. Cloud-Link retrieves measurements from the LR devices using long-range radio frequencies, after which the data is securely uploaded to the Loggs Cloud service via a 4G connection or the facility's own network (WiFi/LAN).

Ensuring Data Continuity

To guarantee uninterrupted data flow, the Cloud-Link LR is equipped with an internal backup battery for power outages. The battery allows the gateway to operate for up to 12 hours without mains power and provides separate notifications in case of power failure. If the connection is lost, the Cloud-Link can store measurements in its internal memory and upload them to the cloud once the connection is restored.

Loggs Cloud

Our versatile cloud service provides the necessary functions for analyzing and reporting measurement data. You can set a notification function for exceeding limit values via text message, automatic call or email.

Through the REST API interface, you can also export data to your company's internal systems.



Loggs Cloud

- ✓ Measurement back up
- ✓ Reports
- ✓ Alerts
- ✓ Graphs
- ✓ Excel-output

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LOG-LR08 & CLOUD-LINK LR 4G

TECHNICAL DETAILS



LOG-LR08

Cost-effective and easy-to-use temperature and humidity transmitter with long range.

Casing:	106 mm (L) 57 mm (W) 33 mm (D) / Black
Weight:	135g
Degree of protection:	IP54
Measurement range:	-30 ... +125°C 5 ... 100% RH
Resolution:	0.1°C 0.1% RH
Sensors:	Temperature & humidity. Internal or 1-5m cable
Abs. accuracy:	±0.3°C ±3%RH (Varies between models)
Measurement interval:	Decided during order: 1-60min (Default 15min)
Compatibility:	Loggs App (Android, iOS), Loggs Cloud
Alerts:	SMS, email, automatic call
Battery life:	2-3 years with default 15 min measurement interval
Circumstances:	-30 ... +60°C 5 ... 95% RH non condensing
Measurements:	Temperature °C, Humidity%RH, Battery voltage VDC
Battery:	4000mAh 3.6V (Changeable)
Range:	1-5km without obstacles. Inside varies
RF / LoRa frequency:	868MHz, 915 MHz
Signal lights:	Internal light indicates transmitting of a measurement
Buttons:	- On/Off button, forces the transmission of new measurement for easy testing - On/Off-switch on the lid
Attachment:	Casing has screw holes, check pictures

Deployment:

The installation of LR series products is simple and quick.

- Attach the antennas of the Cloud-Link LR.
- Connect the power supply to the Cloud-Link LR and turn on the device.
- Make sure that Cloud-Link LR gets a cloud connection within 5 min: green indicator light: on 0.1s, off 0.9s or 2.0s, see the table ->
- Take the Log-LR08 sensor to the measurement point and press on/off-button for 3 seconds.
- Wait for the next automatic measurement or press shortly the on/off- button on the Log-LR08 to make a manual sending.
- The Cloud Link LR blue indicator light will flash and the measurement will appear in Loggs Cloud (cloud.loggs.fi) no later than one minute after the indicator light flashes.



CLOUD-LINK LR

The Cloud-Link LR gateway transmits Log-LR measurement data to the cloud service in real time.

Casing:	105 mm (L) 112 mm (W) 27 mm (D) / Black
Weight:	0.27kg
Degree of protection:	IP40 / For indoor use only (Available with IP54 casing)
Compatibility:	Loggs App (Android, iOS), Loggs Cloud
Alerts:	SMS, email, automatic call
Rechargeable battery:	850mAh 3.7V
Battery life:	12-24h based on measurement interval
Circumstances:	-20 ... +60°C 5 ... 95% RH non condensing
Input voltage:	12VDC - Power adapter included
Measurements:	- Input voltage VDC (Power outage alarms) - Battery level VDC - GSM-signal strength dBm
GSM frequencies:	850/ 900/1800 /1900MHz
Data upload to Cloud:	4G cellular network
Signal lights:	Power: Red- GSM: Green- Sensors: Blue
Buttons:	External on/off-switch
RF / LoRa frequency:	868MHz, 915 MHz / ISM
Internal memory:	32Mb
Attachment:	Casing has screw holes, check pictures

Red	Power	Constant light	Power adapter connected
Red	Power	Flashes every 2s	Device is working with internal battery
Red	Power	Off	Device is turned off
Green	GSM	Constant light	Sending data to the Loggs Cloud
Green	GSM	On 0,1 s / Off 0,1 s	4G-modem turning on (~10 seconds)
Green	GSM	On 0,1 s / Off 0,9 s	Loggs Cloud connection OK: GPRS Network
Green	GSM	On 0,1 s / Off 2,9 s	Loggs Cloud connection OK: 4G Network
Green	GSM	On 1 s / Off 2 s	Loggs Cloud connection off: No connection to the 4G-network. Wait for connection. Check the antenna and availability of 4G-network.
Green	GSM	On 0,5 s / Off 0,5 s	Problem with the SIM card: PIN code demand, faulty card or no card.
Blue	RF	Constant light	Setup state
Blue	RF	Flashes every 0.1s	Receiving data from the Log-LR