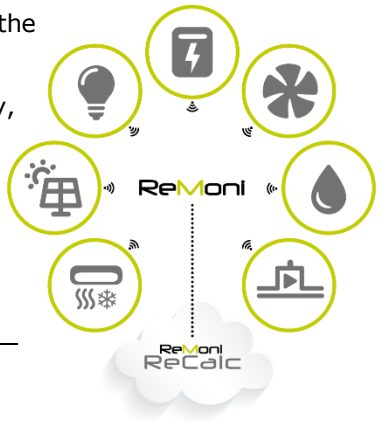
Data Sheet ReMoni wireless communication

Revised: November 2019

APPLICATION

The wireless data communication connects the ReMoni sensors and meters to the gateway, optionally through a repeater(s).

The measured data are transmitted wirelessly to a gateway. From the gateway, the data are transmitted to the ReMoni cloud service, ReCalc. In the other direction, parameter settings and software updates are transmitted from ReCalc through the gateway to the sensor.



TECHNICAL DATA

Wireless technology:	868MHz GFSK modulation, output power < 25mW, 1x internal PCB antenna
Network type (when 868MHz):	Star topology.
Transmission range (to/from sensors/meters):	>750 m, line-in-sight.
Data transmission rate:	Adjustable, from the cloud. Down to one transmission each minute, which can hold multiple measurements.
Heartbeat:	Each sensor sends a heartbeat every 5 minutes, to the gateway
Immunity:	Robust to external mobile signals (internal LTE-filter).
Transmission load	Each sensor communicates less than 0.1 % of the time, in total.
Approvals	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz Product conformity for according to the RED (2014/53/EU). Reference Method: EN 300 220-2 V3.1.1:2017-02 Human exposure to electromagnetic fields for electronic equipment Product conformity according to the LVD (2014/35/EU) Reference Method: EN 62311:2008 EMC for radio equipment Product conformity according to the RED (2014/53/EU). Reference Method: EN 301 489-1 V2.1.1:2016-11 (Draft); EN 301 489-3 V2.1.0:2017-01 (Draft)

The latest version of the datasheet is available at https://support.remoni.com/.