



FMS Flood Monitoring System

Applications

Surface water Water quantity Flood monitoring Tide monitoring Storm water

IoT Device with Radar Water Level Sensor

Integrated flood monitoring and stream gauging solution

Contactless sensor that is easy-to-install and ideal for critical flood monitoring
Intuitive, wireless local operation using LinkComm software via Bluetooth Low Energy (BLE)
Connection to smart phones, tablets, and PCs operating with Android, iOS, or Windows 10
Remote monitoring via cellular communication with integrated modem
Global support for application-specific installation and maintenance guidance

Efficient Resource Allocation for Swift Response:

When minutes matter, timely notifications enable you to take proactive action if water levels exceed a certain threshold, accelerating necessary downstream actions ahead of a flood event.

Designed for Simple Installation and Use:

All-in-one solution with a radar level sensor, datalogger, modem, and power supply. The compact system with customized power supply options, allows you to easily setup a monitoring network with minimal experience.

Reliable and Robust Design for Peace of Mind:

Maintain confidence in all weather conditions with the IP67 housing, so you can focus on managing projects without worrying about equipment failure.

Best-in-Class User Experience:

Via the integrated Bluetooth (BLE) interface, operation with a smartphone or PC is extremely easy using the LinkComm software. The entire system can be configured from the office using the integrated modem.

Technical Specifications

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WATER LEVEL (WITH OTT RLS 500)	Measuring range	0 30 m; distance to water	0 99 ft; distance to water	
	Resolution	0.001 m · 0.1 cm · 1 mm	0.01 ft · 0.1 inch	
	Accuracy for 0 30 m	±2 mm	0.007 ft	
	Accuracy for average temperature coefficient	< 3 mm/10 K; max. 5 mm	< 3 mm/10 K; max. 5 mm	
	Units	m · cm	ft · inch	
	Beam angle of antenna	8°		
	Transmission frequency	77	77 81 GHz	
	Type of radar	FMCW Radar		
	Frequency band	W-band		
	Sampling Interval	5 sec .	5 sec 24 hrs	
POWER (Option Battery Only)	Integrated lithium battery only (with plug connector)	7.2 V / 13 A		
	Integrated lithium battery lifetime	> 10 years @ 20 °C ambient temperature with lithium battery, one hour sample interval, one transfer per day, one local communication (BLE) per month		
POWER (Option Solar Powered)	Integrated NiMH rechargeable battery including solar panel (with plug connector)	+ 6 V / 3.3 Ah 5 watts (optional 2 x 5 watts)		
	Solar panel			
RTC CLOCK	Accuracy	± 26 seconds/month (at +25 °C / +77 °F) when using SNTP < ± 3 seconds		
COMMUNICATION	Cellular 4G/2G (not available for USA)	LTE Cat-1 (4G); B1 (2100 MHz), B3 (1800 MHz), B7 (2600 MHz), B8 (900 MHz), B20 (800 MHz), B28 (700 MHz); GSM, GPRS, EDGE; 900 MHz, 1800 MHz		
	Cellular 4G CAT-M1/LTE-M (Global)	B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66		
	Local communication	Bluetooth Low Energy (BLE) 5.0 - up to 10 m (free line of sight)		
DATA TRANSMISSION	Interval	1 minute 1 week, 15 minutes 24 hours for SMS FTP, FTPS, HTTP, HTTPS (TLS 1.2), MQTT, MQTTS		
	IP COM			
DATA MEMORY	Measurement memory	28 MB (approx. 1,000,000 values)		
ENVIRONMENTAL	Temperature range, operating	−30 °C +85 °C	-22 °F +185 °F	
	Temperature range, storage	-40 °C +85 °C	-23 °F +185 °F	
	Humidity	5 % 95 % (n	on-condensing)	
	IP rating	IP 67 (flood-proof up to 1 week/ 1 m water column)		
DIMENSIONS/WEIGHT Sensorlink 1000	Dimension	L x W x H: 160 mm x 80 mm x 60 mm	L x W x H: 6.3 in x 3.1 in x 2.4 in	
	Weight (incl. lithium battery)	approx. 0.9 kg	approx. 2 pounds	
	Material	Aluminium		
DIMENSIONS/WEIGHT RLS 500	Dimension	L x W x H 137 mm x 134.5 mm x 90 mm	L x W x H 5.30 in x 4.51 in x 3.35 in	
	Weight (without mounting)	approx. 0.75 kg	approx. 1.5 pounds	
	Material Housing	Aluminium		
REGULATORY	FCC / IC / CE / ACMA	C € F© IC △ According to NAPRD03 (only modern variant 4G Cat-M1/LTE-M)		
	PTCRB			
REGULATORY	Provider certifications	Verizon Open Development Certification, AT&T IoT Device Certification		



OTT SensorLink 1000 with **Integrated Lithium Battery**



OTT RLS 500 Smart Radar Level Sensor



Optional 5 Watt Solar Panel

