

AYYEKA WAVELETS COMPARISON

[Ayyeka Wavelets™](#) are battery-powered data loggers that help utilities monitor assets, improve performance, and reduce downtime.




Wavelets securely transmit sensor data to Ayyeka's [Field Asset Intelligence \(FAI\)](#) platform for centralized management and integration with SCADA, GIS, analytics tools, and other IoT systems.

By transforming raw field data into actionable insights, Wavelets™ enhance efficiency, support compliance, and extend infrastructure lifespan.

Key Benefits:

- **Compatible:** Connect any sensor to Ayyeka and integrate with any IoT platform
- **Cost-effective:** Plug-and-play setup saves time and money
- **Ruggedized:** Engineered to perform reliably in harsh environments with an IP68 rating
- **Cybersecure:** Built-in encryption, authentication, and remote updates

Each Wavelet model is purpose-built to meet specific operational goals. To choose the right fit for your deployment, consider the following criteria:

	Wavelet 4R	Wavelet V2	Wavelet V2 EX
	Cost Optimized	Robust	Intrinsically Safe
			
Case	Orange	Grey	Black
# Analog inputs	Up to 2 universal inputs (current and voltage)	Up to 4 universal inputs (current and voltage)	Up to 3 universal inputs (current)
# Digital inputs	2 dry contacts	5 dry contacts	3 dry contacts
Serial inputs	RS485, RS232 Up to 16 channels (SD-12 per request)	RS485, RS232, SD-12 Up to 16 channels	RS485, RS232, SD-12 Up to 16 channels
Serial, digital & analog ports	All in one port	3 separate ports	3 separate ports
Sensor power supply output	1 x 12V, 250mA total Support 3.6 V to 3.9 V	4 X 12V, 250mA total Support 3.6 to 3.9V	1 x 12V, 80mA total Support 3.6 V to 3.9 V
Internal antenna	X	✓	✓
Internal GPS	X	✓	✓
Internal data storage	~1M sensor data samples	~500M sensor data samples	~500M sensor data samples
Internal humidity sensor	✓	✓	✓
SIM cards	1 SIM slot (4FF nano)	2 SIM slots (3FF micro)	2 SIM slots (3FF micro)
Battery capacity	32 Ah (3.9V)	32 Ah (3.9V)	19 Ah (7.2V)
Time Synchronization	HTTPS, NTP Server	HTTPS, NTP Server, RTC, GPS	HTTPS, NTP Server, RTC, GPS
ATEX, Hazloc, IECEx	X	X	✓
Weight	0.7kg (1.5lbs)	0.9kg (2.0lbs)	0.9kg (2.0lbs)