

Inputs/Output		
Analog	3 inputs, individually jumper	5 to 24 V available to power
	selectable	analog sensors.
	4-20 mA / 0-10Vdc / 0-5 Vdc	
Digital	3 discrete individually jumper	Event driven notifications
	configurable between dry	Pulse counting
	contact and voltage	High-low level switches
	1 wake-up (exception-based	
	reporting/notification)	
Serial Port	RS-485	Master/Slave functionality
		Custom programming required
		to poll multiple tags
Digital Out	1 open drain output	24 V, 1 A max applications
		Custom programmed

	Other Key Attributes	
Flash Memory	16 MB	Data Logging, Configuration
		Files
Antenna	Internal Flexible, 1.4 dBi	
Microprocessor	ARM Cortex-M4	
Encryption	AES 128	
Radio Technology	LoRa/LoRaWAN	
Radio Range	Up to 10 miles Line of Sight	
Radio Frequency	915 MHz US Channel Plan	Other LoRa channel plans (EU
		868, AU 915) available by
		special order

Power		
Battery	1-D size lithium thionyl chloride	Typical monitoring
	user replaceable primary	requirements (one reading per
	battery provided.	hour, with three 4-20mA
	3.6 Volt nominal	pressure sensors attached)
	 4000 mA pulse current 	result in a calculated 2 + year
	13.0 Ah capacity	battery life.
Sleep Mode Power Demand	40 uA	
Wake Mode Power Demand	Up to 250 mA during	
	transmission period.	

Default Configuration		
	Parameter	Default Setting
	Network Type	Public LoRaWan
	Adaptive Data Rate	On
	Frequency Sub Band	2
	Transmission Receipt Ack	On

	Analog Sensor Voltage*	12 Volts
	Cycle Time*	30 Minutes
	Sensor Settling Time*	1 seconds
	# of Resend Attempts*	1
	Resend Delay*	5 seconds
	Failed Transmissions prior to	1
	Rejoin*	
User Configuration	"*" Indicates OTA user	Over the Air
	configurable items. FSB can be	Locally via USB to RS 232
	changed using local	connection
	configuration. Modbus RTU tag	
	and Analog gain/offset	
	calibration also configurable	
Custom Configuration	Customized routines for pulse counting, exception reporting,	
	endpoint analytics, polling of multiple Modbus tags.	

Approvals/Certifications	
FCC/IC	Operates in the ISM (unlicensed band).
	FCC ID:125A-0054
	IC Identifier: AU792U13A16857
	UL-62368-1, Third Edition
	CSA C22.2 No. 62368-1, Third Edition
	Annex Y

Enclosure		
Entry Points	3 - Cable Glands (accept 0.105	
	to 0.315-inch diameter cable)	
Operating Temperature	-40° to 80° C, -40° to 176° F	All components are rated to this
		range.
Weather	IP 66, NEMA 4X	Enclosure, cable glands built to
		this standard or better.
VoBo GP-1 Dimensions	7.6" x 4.6" x 3.1" (approx.)	
Mounting	3 mounting holes on either side	Pole mount brackets and
	of enclosure for direct fastening	magnetic mounts available