

The gPIMS<sup>®</sup> Field Control Unit (FCU) samples data from Guided Ultrasonics Ltd.'s (GUL) permanently mounted gPIMS<sup>®</sup> Sensors which provide both small and large area monitoring data. The gPIMS<sup>®</sup> FCU collects data automatically without the need for a Wavemaker instrument nor a standard orange connection box. This unit can be retrofitted to most existing models of gPIMS<sup>®</sup> Sensors.

## TECHNICAL SPECIFICATION SUMMARY *(Subject to change)*

	FCU - USB Variant	FCU - 4G Variant
Application Areas		
Designed for	Manual Data Retrieval	Autonomous Data Upload
Physical Characteristics		
Dimensions W x D x H <sup>(1)</sup>	19 x 21 x 50 cm [7.25 x 8 x 19.5 inches]	
External surface	316 Stainless Steel	
Weight <sup>(2)</sup>	11.3 kg [25 lbs]	
Mounting <sup>(3)</sup>	Various options available	
Power Supply Ratings		
Battery type (Removable)	Nominal 12V, 7.2 Ah Lead Crystal Battery (Rechargeable)	
Typical battery life <sup>(4)</sup>	500 Collections	250 Collections
External power supply <sup>(5)</sup>	19-24 VDC (20W minimum) to recharge battery in situ	
Solar panel charging <sup>(5)</sup>	Compatible with GUL supplied 5W or 10W Panel	
Output (to sensor)		
Number of channels	16	
Output voltage (nominal)	± 5V (w.r.t. GND)	
Output parameters [IS equivalent (w.r.t GND)]	Analog: U <sub>o</sub> = 8.3V, I <sub>o</sub> = 503mA, P <sub>o</sub> = 1.044W, C <sub>o</sub> = 71.35μF, L <sub>o</sub> = 0.56mH Digital: U <sub>o</sub> = 5.46V, I <sub>o</sub> = 143.4 mA, P <sub>o</sub> =1.96W, C <sub>o</sub> = 987.42μF, L <sub>o</sub> = 6.9mH	
Frequency Range	10-650 kHz	
Sensor compatibility	GUL gPIMS® Sensors ( 3" to 72" [DN 80-1800] )	
Communication Interfaces		
Cellular Modem (LTE/UMTS/GSM) <sup>(6)</sup>	-	Quectel EG21-G (FCC ID: XMR201906EG21G)
Internal Data Storage	8 GB (Archives last 2000 data collections)	
Removable Data Storage <sup>(7)</sup>	USB ‘stick’	
Configuration Interface	Wi-Fi	Wi-Fi or Cloud



(1) Dimensions exclude the antenna, but include the removable standard mounting frame.

(2) Weight includes removable standard pole mounting frame.

(3) Normally supplied with a mounting bracket for vertical poles of 1" to 3" in diameter.

(4) The exact number of collections will depend on the selected collection configuration and the strength of the 4G signal at the installed location.

(5) The battery should be charged in a non-hazardous area. A depleted battery can be changed for a fully charged one by opening the front panel.

(6) The 4G units are normally supplied with an active SIM Card that works in most countries.

(7) Any capacity USB storage device can be used, but they must be formatted with a FAT32 file system, which is the industry 'default' for drives between 2 GB and 32 GB.