

## gPIMS° FCU

## **TECHNICAL SPECIFICATION**

The gPIMS® Field Control Unit (FCU) collects data from permanently installed gPIMS® Sensors, enabling automated large-area and small-area monitoring. It operates independently of a Wavemaker® instrument and can be retrofitted to most existing models of gPIMS® sensors.

FCU - USB	FCU - 4G
Manual Data Retrieval	Autonomous Data Upload
19 x 21 x 50 cm [7.25 x 8 x 19.5 inches]	
316 Stainless Steel	
11.3 kg [25 lbs]	
Various options available	
Nominal 12V, 7.2 Ah Lead	Crystal Battery (Rechargeable)
500 Collections	250 Collections
19-24 VDC (20W minimum) to recharge battery in situ	
Compatible with GUL supplied 5W or 10W Panel	
,	16
± 5V (w.r.t. GND)	
Analog: $U_o$ = 8.3V, $I_o$ = 503mA, $P_o$ = 1.044W, $C_o$ = 71.35 $\mu$ F, $L_o$ = 0.56mH Digital: $U_o$ = 5.46V, $I_o$ = 143.4 mA, $P_o$ =1.96W, $C_o$ = 987.42 $\mu$ F, $L_o$ = 6.9mH	
10-650 kHz	
GUL gPIMS® Sensors - 3" to 72" (DN 80 to 1800)	
-	Quectel EG21-G (FCC ID: XMR201906EG21G)
8 GB (Archives last 2000 data collections)	
USB 'stick'	
Wi-Fi	Wi-Fi or Cloud
	Manual Data Retrieval  19 x 21 x 50 cm [7 316 Stair 11.3 kg Various opti  Nominal 12V, 7.2 Ah Lead of 500 Collections 19-24 VDC (20W minimum Compatible with GUL states)  ± 5V (w Analog: U₀= 8.3V, I₀= 503mA, P₀= Digital: U₀= 5.46V, I₀= 143.4 mA, F  10-66 GUL gPIMS® Sensors of SGB (Archives last the USB)





- Dimensions exclude the antenna, but include the removable standard mounting frame.
- 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) Use of a solar panel extends the effective battery life to up to 10 years
- (7) The 4G units are normally supplied with an active SIM Card that works in most countries.
- (8) 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.







