Accutech GL10 Wireless Gauge Level Field Unit

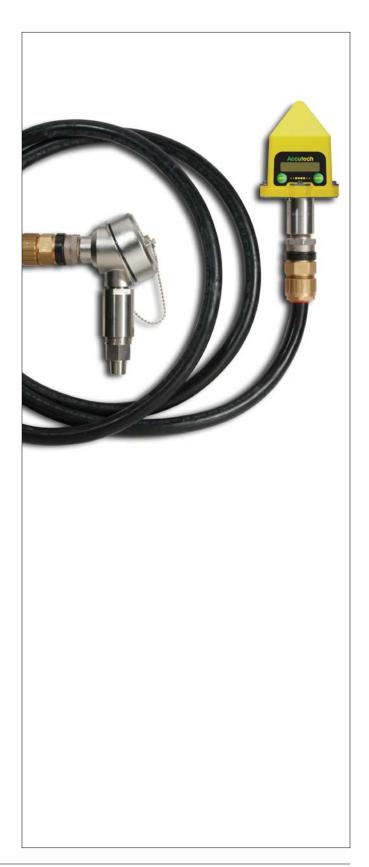
Accutech field units eliminate costly hard wired installations by providing an easy-to-install and secure wireless link between field-based process instrumentation and control infrastructure. They are intended for use in extreme environments where typical wired communication is not feasible or economical. Field units are configured locally through a LCD/keypad or remotely with Accutech Manager, which also provides a user-friendly environment for wireless network diagnostics and management. A wide range of process types are supported with a maximum of 100 field units possible per base radio network.

GL10 Features:

- Extended gauge level sensor
- Specific-gravity correction
- Multiple units of level measurement

The Accutech GL10 wireless gauge level field unit is designed to measure hydrostatic level in a vented tank and is equipped with an extended sensor, allowing for more advantageous positioning of the wireless transceiver without compromising the sensor's measurement accuracy. Specific gravity correction and multiple units of level measurement are supported.

All Accutech field units automatically report field data to a centralized Accutech base radio over distances of up to 5000ft (1524m). Each field unit is self contained, featuring an integrated 900MHz (license-free band), frequency hopping, spread-spectrum transceiver and antenna, and long-lasting battery for up to 10 years of maintenance-free operation. Accutech field units are housed within a compact and weather-proof NEMA 4 enclosure with options for a NEMA 4X or explosion-proof enclosure, remote sensor and remote antenna on select models. Field units are available in a wide range of certifications are and protected by an industryleading 3-Year warranty (parts and labor).



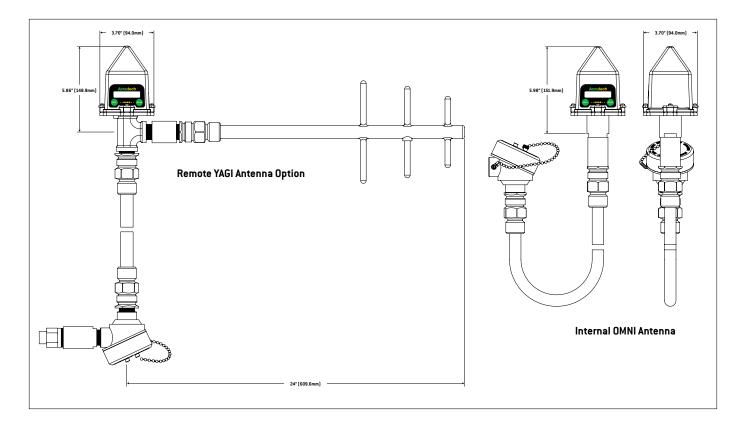
GL10 Specifications

Functional					
Sensor Type	Gauge Level				
Location	Field Unit				
Frequency Range	902-928MHz				
Power	Integrated battery				
Features					
Accuracy	\pm 0.1 % of sensor URL over temperature range -40 to +185°F (-40 to +85°C)				
Stability	Combined zero and span stability: less than \pm 0.1% of sensor URL per year at 70°F (21°C)				
Sampling and Transmission Characteristic	 The level field unit samples pressure at regular intervals. The data may then be transmitted to the base radio for centralized monitoring and data acquisition. The user specifies how frequently the process is monitored and how often data is transmitted. Level – user designates low rate and high rate conditions Sampling rate – user selectable from 1 to 60 seconds (low rate) and from 1 to 30 seconds (high rate) Transmission rate – user selectable from 1 second to 60 seconds (low and high rate) 				
	Accutech Manager can be used for real-time monitoring of the process information.				
Extended Sensors	The user can set thresholds to represent "alarm" or abnormal conditions. The extended sensors enable installation of the electronics and wireless unit in an elevated, unobstructed location to enhance transmission range and isolate electronics from process vibration.				
Remote Configuration Interface	Accutech Manager, Windows [™] -based GUI software, providing network-wide fault and performance-management features ar field unit configuration capabilities.				
Local Configuration Interface	 Integrated LCD with membrane-switch buttons Display provides pressure reading and error messages, if applicable Configure sampling and RF parameters locally using membrane-switch buttons 				
RF Characteristics	 902MHz - 928MHz band (FCC/IC) 915MHz - 928MHz band (Australia) 915MHz - 921MHz band (New Zealand) The RF module in each field unit is individually tested and calibrated over the full temperature range to ensure reliable wireless operation 				
Self-Diagnostics	 Low battery alarm – indicates the need to replace the battery (approximately one month warning) Contains extensive self-checking software and hardware that continuously monitors operation. Any sensor or device parameter that is out of spec is identified and reported 				
General					
Operating Ambient Environment: Power:	 -40 to +185°F (-40 to +85°C) electronics ambient temperature -4 to +185°F (-20 to +70°C) display (full visibility) ambient temperature -40 to +185°F (-40 to +85°C) display (with reduced visibility) ambient temperature Humidity: 0 to 95 %, non-condensing 				
Operating Shock and Vibration:	 One 'C' Cell Up to ten (10) year battery life (depends on sample rate and RF-update rate) Certified per IEC EN00068 2-6 (vibration) and 2-27 (shock) Certified reveal Certified - Environment and the same reveal of the same rate and reveal of the same rate are same rate. 				
Random Vibration Characteristics: Electromagnetic Compatibility Safety Certifications:	 Certified to withstand 6 g's, 15 minutes per axis from 9 – 500Hz Operates within specification in fields from 80 to 1,000MHz with field strengths to 30V/m. Meets EN 50082-1 General Immunity Standard and EN 55011 compatibility emissions standard. Rated for industrial use -40 to 185°F (-40 to 85°C) Explosion Proof: Div 1: CSA - Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1 Div 2: CSA - Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III 				
	 Intrinsically Safe: CSA - Exia IIC; AEx ia IIC: Class I, Div. 1, Groups A, B, C & D; Class II, Div. 1, Groups E, F & G; Class III, Div. 1 				

GL10

	epresents a typical part number.						
Model							
C-GL10	Gauge Level Field Unit						
Code		Select: RF Module Type					
code	902MHz - 928MHz band (1						
	915MHz - 928MHz band (
	,	915MHz - 921MHz band (New Zealand)					
Code		Select: Safety Rating					
	General Purpose (non-hazardous locations)						
-	Explosion Proof Div 1						
A	•	Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1					
	Explosion Proof Div 2	,,,,					
	•	, C and D; Class II, Div. 2, G	pups F and G: Class III				
E	Intrinsically Safe						
		ass I, Div. 1, Groups A, B, C	& D; Class II, Div. 1, Groups E, F & G; Class III, Div	/. 1			
Code	Select: Housing						
		NEMA 4 - Available with general purpose or intrinsically safe ratings					
		Aluminum - Available with all ratings. Required for explosion-proof safety rating					
Code		Select: Battery Pack					
	One 'C' Cell						
Code	Future Option						
	None						
Code	Select: Integral Antenna or Cable & Connector Interface						
0	Integral Antenna with Explosion Proof Antenna Cover (meets explosion-proof Div 1/ Div 2 & intrinsically safe rating)						
1	Integral N-Male connector for Remote Antenna (meets explosion-proof Div 2 & intrinsically safe rating)						
0	10ft. Cable with N-Male connector for remote antenna configurations (meets explosion-proof Div 2 & intrinsically safe rating)						
5	25ft. Cable with N-Male connector for remote antenna configurations (meets explosion-proof Div 2 & intrinsically safe rating)						
Code	Select: Sensor Mo	unting					
	Integral						
	Remote Sensor with 10ft.	Remote Sensor with 10ft. cable (other cable lengths available as special order)					
Code	Select: Sensor Range						
	Upper Range Overload Safety Limit (URL)	Overload Limit	Safety Limit				
	PSIG (BAR)	PSI (BAR)	PSI (BAR)				
15	15 (1.034)	30 (2.068)	500 (34.5)				
130	30 (2.068)	60 (4.137)	500 (34.5)				

Accutech Field Unit





www.controlmicrosystems.com