Accutech GP10

Wireless gauge pressure field unit





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The Accutech™ GP10 wireless gauge pressure field unit provides pressure data in a variety of ranges from 5 to 15000 PSIG. With its integrated and highly sensitive sensor design, the product may be configured to sample and transmit updates between once per second and once per minute. Transmit rate changes can also be triggered based on events that are defined in terms of measurement limits or rates of movement. This function allows for optimization of battery life while providing only the data you need to record process events.

Accutech field units automatically report field data to a centralised Accutech base radio over distances of up to 3000ft (~1000m). Each field unit is self contained, featuring an integrated 900MHz or 2.4GHz (license-free band), frequency hopping, spread-spectrum transceiver and antenna, and long-lasting battery that offers 5+ years of maintenance-free service (up to 10 years depending on data rates and battery options). Accutech networks are highly scalable with the possibility of 100 field units per base radio and 256 base radios per installation. Accutech field units are housed within a weather-resistant NEMA 4X enclosure with options for a remote sensor and remote antenna on select models. Field units are available in a wide range of certifications and come with a 3-Year warranty (parts and labor).

Product Data Sheet Accutech GP10 Specifications

>	Accutech GP10)				
Functional						
Sensor Type	Gauge Pressure					
Location	Field Unit					
Frequency Range	900MHz and 2.4GHz	license-free bands				
Power	Integrated battery					
Features	ı					
Remote Configuration Interface	field unit configuratio	n capabilities		ork-wide monitoring and	l performance-manage	ment features and
Local Configuration Interface	Integrated LCD with the configure samplingIntegrated LCD with the configure sampling	th membrane-switch bu pressure reading and err g and RF parameters lo	uttons for messages, if applica ocally using membrane-	ible switch buttons.		
Sensor	T			1		
Range	Upper Range	ange Limit (URL) Proof Pressure Burst Pressure				essure
	PSIG	(BAR)	PSI	(BAR)	PSI	(BAR)
	5	(0.345)	10	(0.69)	1500	(2
	15	(1)	30	(2)	1500	(34)
	30	(2)	60	(4)	1500	(34)
	100	(7)	200	(14)	1500	(34
	250	(17)	500	(34)	1500	(103)
	1000	(70)	2000	(138)	10000	(689)
	2500	(170)	5000	(350)	10000	(689
		, ,		, ,		•
	5000	(350)	12000	(827)	20000	(1279
	10000	(700)	12000	(827)	20000	(1279)
	15000	(1000)	16000	(1100)	30000	(2000
Accuracy	Sensor Range	Accuracy				
	5 psig	± 0.5 % of full-scale re	eading over temperatur	e range		
	15 psig	\pm 0.5 % of full-scale re	eading over temperatur	e range		
	30 psig	± 0.5 % of full-scale re	eading over temperature	e range		
	100 psig	± 0.5 % of full-scale re	eading over temperatur	e range		
	250 psig	± 0.5 % of full-scale re	eading over temperature	e range		
	1000 psig	± 0.5 % of full-scale re	eading over temperature	e range		
	2500 psig	± 0.3 % of full-scale re	eading over temperature	e range		
	5000 psig		eading over temperature			
	10000 psig		eading over temperature			
Stability	15000 psig		± 0.1% of sensor URL			
Output Resolution	24-bit Analog to Digit	. ,	± 0.170 Of Serisor Offic	per year at 21 O (701)		
RF Characteristics	900MHz:	equency Hopping Spreustralia) ps, 19.2 kbps, and 76.4 ransmit Power: 0.4W m Hz license-free band Froob kbps (FSK Modulationarmsmit Power: +10.66 ransmit Power: +10.66 ranstivity (0.1% BER): -	B kbps naximum equency Hopping Sprea on) Bm 102dBm @ 50kbps	CC certified ISM license ad Spectrum (FHSS) Ra	dio	
Self-Diagnostics	Low battery notific	ation – indicates the ne	ed to replace the batte	ry (approximately one mation. Any sensor or de	onth advance notificati	on) out of



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>	Accutech GP10
General	
Operating Ambient Environment	 -40 to 85°C (-40 to 185°F) electronics -40 to -20°C (-40 to -4°F) display (with reduced visibility)
Materials of Construction	 Type 316 stainless steel base and diaphragm Standard 1.25 cm (½ in.) MNPT (other options available) Epoxy coated Aluminum enclosure
Power	 1: D Cell Lithium Thionyl battery Battery life up to ten years of service, depending on configuration
Operating Shock and Vibration	Tested per IEC 60068-2-6 (vibration) and IEC 60068-2-27 (shock)
Random Vibration Characteristics	Tested to withstand 6Gs, 15 minutes per axis from 9 – 500Hz
Electromagnetic Compatibility	Operates within specification in fields from 80 to 1,000MHz with field strengths to 30V/m. Meets IEC 61000-6-2 General Immunity Standard and IEC 6100-6-4 compatibility emissions standard
Certifications	North America HAZLOC: cCSAus Intrinsically Safe: Exia IIC; AEx ia IIC Class I, Div. 1, Groups A, B, C & D, T3 Class II, Div. 1, Groups E, F and G, T3 Class III, T3 Class I, Zone 0, AEx ia IIC, T3 Class I, Div. 2, Groups A, B, C & D, T4 Class II, Div. 2, Groups F and G, T4 Class III, T4
	ATEX/IECEx HAZLOC: LCIE Intrinsically Safe: Ex ia IIC T3
	EMC & Radio: North America: FCC, IC Europe: CE Mark (R&TTE) Australia: C - Tick

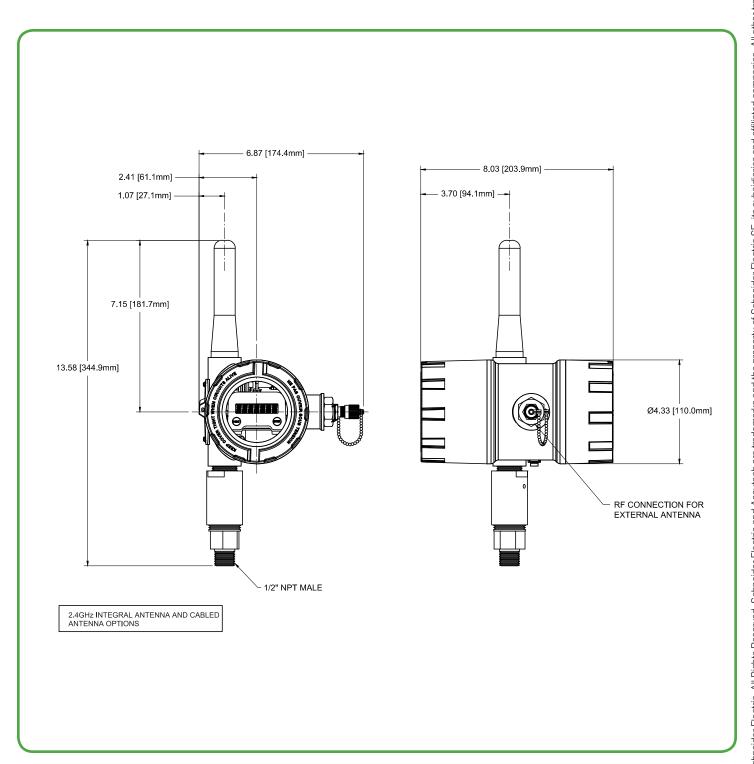
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	TRUACE	T IDNIOOSOOS A	ronrocente e tu	oical part numb						
		TBUAGPTJPN00S005A represents a typical part number.								
Model		Туре								
TBUAGP		Wireless Gauge Pressure Field Unit								
Code	Select:	Select: RF Module Type								
Т	902MHz	902MHz - 928MHz band (FCC / IC)								
D	915MHz	915MHz - 928MHz band (Australia)								
F	2.4GHz									
Code	Select:	Select: Certifications								
J	Intrinsica CSA – se	Intrinsically Safe Protection CSA – see certification details on previous page								
Q	ATEX & II	ATEX & IECEx - see certification details on previous page								
Code	Select:	Select: Housing & Battery Pack								
1	NEMA 4	NEMA 4X Housing with 1 D Cell								
Code	Select:	Select: Future Option								
N	None	None								
Code	Select:	Select: Integral Antenna								
00	Integral A	Integral Antenna (2.4GHz unit comes default with integral antenna and external antenna connector)								
04	External	External Antenna connector (900MHz only, antenna and cables purchased separately)								
Code	Select:	Select: Sensor Mounting								
S		For 5 to 10K PSI Sensors Integral Sensor mounting with 1/2" NPT fitting								
R	Remote	Sensor mounting	g with 10 ft. Ca	ble and 1/2" NF	PT fitting					
		For 15K PSI Sensors F250 Fitting								
		Remote Sensor mounting with 10ft. (3.01m) cable and F250 fitting								
E	Remote	Sensor mounting	g with 10ft. (3.0	1m) cable and	F250 fitting					
E		Sensor mounting ing – consult fa	-	•	F250 fitting					
E R	NPT Fitt		ctory for deliv	ery						
	NPT Fitti Remote	ing – consult fa	ctory for deliv	ery						
R	NPT Fitti Remote	ing - consult fa Sensor mounting Sensor Rang	ctory for deliv	ery ble and 1/4" NF		essure				
R Code	NPT Fitti Remote S Select: Upper R Limit (UI	ing - consult fa Sensor mounting Sensor Rang lange RL) (BAR)	g with 10 ft. Ca ge Proof Pr	ery ble and 1/4" NR essure (BAR)	PT fitting Burst Pr	(BAR)				
R Code	NPT Fitti Remote : Select: Upper R Limit (UI PSIG 5	ing – consult fa Sensor mounting Sensor Rang ange RL) (BAR) (0.345)	g with 10 ft. Ca	ery ble and 1/4" NF essure (BAR) (0.69)	PT fitting Burst Pr PSI 1500	(BAR) (2)				
005 015	NPT Fitti Remote S Select: Upper R Limit (UI PSIG 5	ing – consult fa Sensor mounting Sensor Range ange RL) (BAR) (0.345)	proof	ery ble and 1/4" NF essure (BAR) (0.69)	Burst Pr PSI 1500 1500	(BAR) (2) (34)				
005 015 030	NPT Fitti Remote S Select: Upper R Limit (UI PSIG 5 15 30	sensor mounting Sensor Range RL) (BAR) (0.345) (1) (2)	ectory for deliver grade with 10 ft. Carge Proof Pr PSI 10 30 60	ery ble and 1/4" NF essure (BAR) (0.69) (2) (4)	PT fitting Burst Pr PSI 1500 1500	(BAR) (2) (34) (34)				
005 015 030 100	NPT Fitti Remote S Select: Upper R Limit (UI PSIG 5 15 30 100	ing – consult fa Sensor mounting Sensor Range RL) (BAR) (0.345) (1) (2) (7)	Proof Pr PSI 10 30 60 200	ery ble and 1/4" NF essure (BAR) (0.69) (2) (4) (14)	PT fitting Burst Pr PSI 1500 1500 1500 1500	(BAR) (2) (34) (34) (34)				
005 015 030 100 250	NPT Fitti Remote S Select: Upper R Limit (UI PSIG 5 15 30 100 250	ing – consult fa Sensor mounting Sensor Range ange RL) (BAR) (0.345) (1) (2) (7) (17)	Proof Pr PSI 10 30 60 200 500	essure (BAR) (0.69) (2) (4) (14) (34)	PT fitting Burst Pr PSI 1500 1500 1500 1500 1500	(BAR) (2) (34) (34) (34) (103)				
005 015 030 100	NPT Fitti Remote 3 Select: Upper R Limit (UI PSIG 5 15 30 100 250 1000	sensor mounting Sensor Range RL) (BAR) (0.345) (1) (2) (7) (17) (70)	Proof Pr PSI 10 30 60 200 500 2000	essure (BAR) (0.69) (2) (4) (14) (34) (138)	PT fitting Burst Pr PSI 1500 1500 1500 1500 1500 1500 10000	(BAR) (2) (34) (34) (34) (103) (689)				
005 015 030 100 250	NPT Fitti Remote 3 Select: Upper R Limit (UI PSIG 5 15 30 100 250 1000 2500	ing – consult fa Sensor mounting Sensor Range ange RL) (BAR) (0.345) (1) (2) (7) (17)	Proof Pr PSI 10 30 60 200 500 5000	ery ble and 1/4" NF essure (BAR) (0.69) (2) (4) (14) (34) (138) (350)	PT fitting Burst Pr PSI 1500 1500 1500 1500 1500 10000 10000	(BAR) (2) (34) (34) (34) (103) (689)				
005 015 030 100 250 1K0	NPT Fitti Remote 3 Select: Upper R Limit (UI PSIG 5 15 30 100 250 1000	sensor mounting Sensor Range RL) (BAR) (0.345) (1) (2) (7) (17) (70)	Proof Pr PSI 10 30 60 200 500 2000	essure (BAR) (0.69) (2) (4) (14) (34) (138)	PT fitting Burst Pr PSI 1500 1500 1500 1500 1500 1500 10000	(BAR) (2) (34) (34) (34) (103) (689)				
R Code 005 015 030 100 250 1K0 2K5	NPT Fitti Remote 3 Select: Upper R Limit (UI PSIG 5 15 30 100 250 1000 2500	ing – consult fa Sensor mounting Sensor Range RL) (BAR) (0.345) (1) (2) (7) (17) (70) (170) (350) (700)	Proof Pr PSI 10 30 60 200 500 5000	ery ble and 1/4" NF essure (BAR) (0.69) (2) (4) (14) (34) (138) (350)	PT fitting Burst Pr PSI 1500 1500 1500 1500 1500 10000 10000	(BAR) (2) (34) (34) (34) (103) (689) (689) (1279)				
R Code 005 015 030 100 250 1K0 2K5 5K0 10K 15K	NPT Fitti Remote 3 Select: Upper R Limit (UI PSIG 5 15 30 100 250 1000 2500 5000 10000 15000	ing – consult fa Sensor mounting Sensor Range RL) (BAR) (0.345) (1) (2) (7) (17) (70) (170) (350) (700) (1030)	Proof Pr PSI 10 30 60 200 500 12000	essure (BAR) (0.69) (2) (4) (14) (34) (138) (350) (827)	PT fitting Burst Pr PSI 1500 1500 1500 1500 1500 10000 10000 20000	(BAR) (2) (34) (34) (34) (103) (689) (689)				
R Code 005 015 030 100 250 1K0 2K5 5K0 10K	NPT Fitti Remote 3 Select: Upper R Limit (UI PSIG 5 15 30 100 250 1000 2500 5000 10000 15000	ing – consult fa Sensor mounting Sensor Range RL) (BAR) (0.345) (1) (2) (7) (17) (70) (170) (350) (700)	Proof Pr PSI 10 30 60 200 5000 12000 12000	ery ble and 1/4" NF essure (BAR) (0.69) (2) (4) (14) (34) (138) (350) (827)	PT fitting Burst Pr PSI 1500 1500 1500 1500 1500 10000 20000 20000	(BAR) (2) (34) (34) (34) (103) (689) (689) (1279)				



Product Data Sheet Accutech GP10 Dimensions



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