Accutech AP10 Wireless absolute pressure field unit







The Accutech[™] AP10 wireless absolute pressure field unit provides pressure data in a variety of ranges from 30 to 250PSIA. 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 maximisation of battery life.

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).

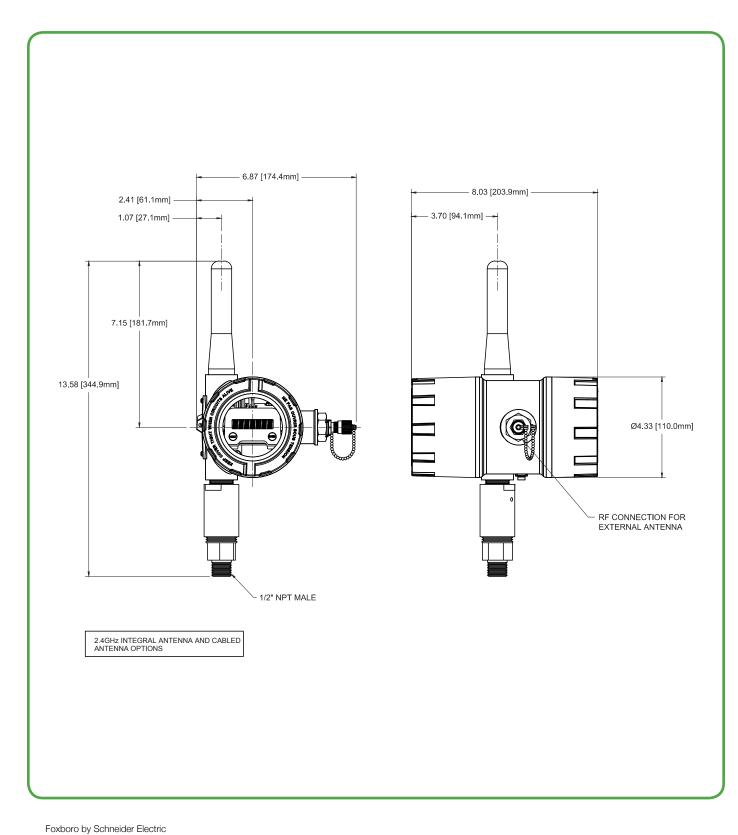
Product Data Sheet Accutech AP10 Specifications

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Typical Receive Sensitivity (0.1% BER): - 102dBm @ 50kbps, - 99dBm @ 100kbps
Typical CW Receiver Blocking Rejection: 64dB for CW @ +/- 5MHz, 74dB for CW @ +/- 30MHz Low battery notification – indicates the need to replace the battery (approximately one month advance notification) Contains software and hardware that continuously monitors operation. Any sensor or device parameter that is out of
spec is identified and reported
-40°C to +121°C (-40°F to +250°F), process temperature, steady-state -40°C to +110°C (-40°F to +230°F) ambient temperature sensor -40°C to +85°C (-40°F to +185°F) electronics -40°C to +85°C (-40°F to +185°F) display (below -20°C LCD visibility reduced) Humidity: 0 to 95%, non-condensing
Fittings: 316L Stainless Steel Epoxy coated Aluminum enclosure
Self-contained power 1: D Cell, Lithium Thionyl battery Battery life up to ten years of service, depending on configuration
ested per IEC 60068-2-6 (vibration) and 2-27 (shock)
ested 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 IEC 61000-6-2 General Immuni tandard and IEC 61000-6-4 compatibility emissions standard
Iorth 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 II, T3 Class I, Div. 2, Groups A, B, C & D, T4 Class II, Div. 2, Groups F and G, T4 Class III, Div. 2, Groups F and G, T4 Class III, T4 TEX/IECEx HAZLOC: LCIE Intrinsically Safe: Ex ia IIC T3 MC & Radio: North America : FCC , IC Europe : CE Mark (R&TTE) Australia : C - Tick

Product Data Sheet Accutech AP10 Model Code

	TBUAAPTJ1N00S030A represents a typical part number.
Model	Туре
твиаар	Wireless Absolute Pressure Field Unit
Code	Select: RF Module Type
т	
I	902MHz - 928MHz band (FCC / IC)
D	915MHz - 928MHz band (Australia) 2.4GHz
Code	Select: Certifications
J	Intrinsically Safe Protection cCSA us: see specifications page
Q	ATEX/IECEx: see specifications page
Code	Select: Housing & Battery Pack
1	NEMA 4X Housing with 1 D Cell
Code	Select: Future Option
N	None
Code	Select: Integral Antenna
00	Integral Antenna (2.4GHz unit comes default with integral antenna and exter nal antenna connector)
04	External Antenna connector (900MHz only, antenna and cables purchased separately)
Code	Select: Sensor Mounting
S	Integral
R	Remote Sensor with 10ft. (3.05m) cable
Code	Select: Sensor Range
	Upper Range Proof Pressure Burst Pressure Limit (URL)
	PSIA (BAR) PSIA (BAR) PSIA (BAR)
030	30 (2) 60 (4) 500 (34)
250	250 (17) 500 (34) 1500 (103)
Code	Select: Future Option
А	None

Product Data Sheet Accutech AP10 Dimensions



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