Accutech DP20 Wireless differential pressure field unit







The AccutechTM DP20 differential pressure field unit provides differential pressure data in a variety of ranges up to +/-300in H₂0. Both traditional (side-mount) and low profile (bottommount) connections are available to enhance installation options. The DP20 may be operated in any one of four modes: Differential Pressure, Orifice Flow, Open Channel Flow and Level, and may be configured with a 22-point custom curve capability.

The DP20 is suited for level applications, especially in pressurised tanks (e.g. propane & butane). The product also has a square root function for use with orifice plates, v-cones, and pitot tubes, providing volumetric flow measurement in general industrial processes.

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).

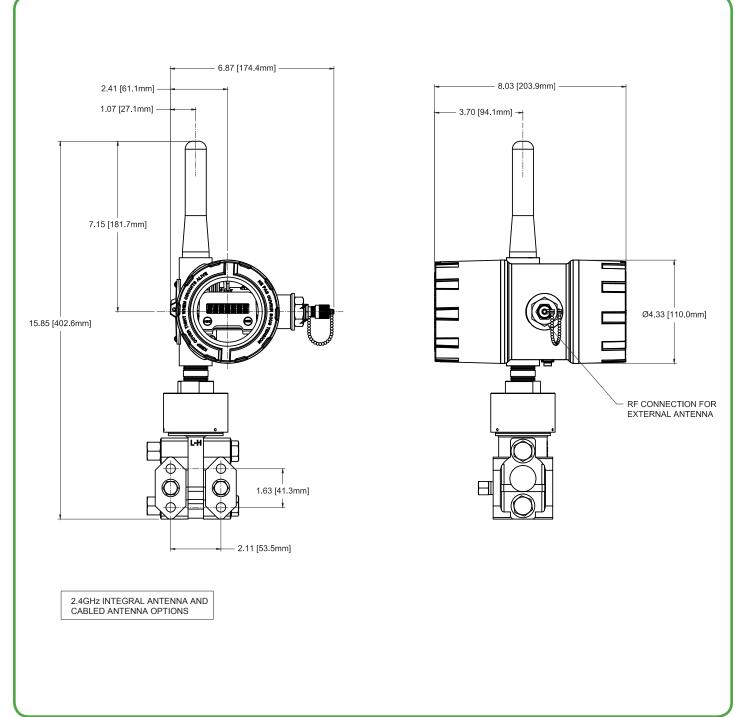
Product Data Sheet Accutech DP20 Specifications

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0.4W maximum .4GHz: 2400 to 2483.5MHz ISM license-free band Frequency Hopping Spread Spectrum (FHSS) Radio Data Rates: 50/100kbps (FSK Modulation) Typical Electrical Transmit Power: +10.6dBm 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 specification is identified and reported
-40° C to +104°C (-40° F to +220°F) process connection temperature, steady state -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 Sensor Diaphragm: 316L Stainless Steel (Hastelloy C available upon special request) Flange: 316L Stainless Steel Bolts and Nuts: High Strength Alloy Steel
Self-contained power 1: D Cell, Lithium Thionyl battery Battery life up to ten years of service, depending on configuration
DC 200 silicone
ested per IEC 60068-2-6 (vibration) and 2-27 (shock)
ested to withstand 6 g's, 15 minutes per axis from 9 – 500Hz
perates within specification in fields from 80 to 1,000MHz with field strengths to 30V/m. Meets IEC 61000-6-2 General Immunity tandard and IEC 61000-6-4 compatibility emissions standard
lorth America HAZLOC: cCSAus Intrinsically Safe: Exia IIC; AEx ia IIC Class I, Div. 1, Groups A, B, C & D, T3 Class I, Zone 0, AEx ia IIC, T3 Class I, Jiv. 2, Groups A, B, C & D, 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 DP20 Model Code

	TBUADPTJPN00S100NS represents a typical part number.
Model	Туре
TBUADP	Wireless Differential Pressure Field Unit
Code	Select: RF Module Type
Т	902MHz - 928MHz band (FCC / IC)
D	915MHz - 928MHz band (Australia)
F	2.4GHz
Code	Select: Certifications
	Intrinsically Safe Protection
J	CSA – see product data sheet for certification details
Q	ATEX & IECEx – see product data sheet for certification details
Code	Select: Housing & Battery Pack
1	NEMA 4X Housing with 1 D Cell
Code	Select: Future Option
Ν	None
Code	Select: Integral Antenna
00	Integral Antenna (2.4GHz unit comes default with integral antenna and external antenna connector)
Code	Select: Sensor Mounting
S	Integral
Code	Select: Sensor Range
	Upper (URL) and Overload Lower Range Limit Limit
100N	+/- 100in H ₂ O 3000psi
300N	+/- 300in H ₂ O 3000psi
025P	+/- 25psi 3000psi
100P	+100, -25psi 3000psi
300P	+300, -25psi 3000psi
Code	Select: Sensor Type
S	Standard Sensor - Horizontal process connections with vertical mounting
L	Low Profile Sensor - Vertical process connections with vertical mounting



Schneider Electric

Telemetry & Remote SCADA Solutions

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