Accutech DP20

Wireless differential pressure field unit





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The AccutechTM DP20 differential pressure field unit provides differential pressure data in a variety of ranges up to \pm 0. Both traditional (side-mount) and low profile (bottom-mount) 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).

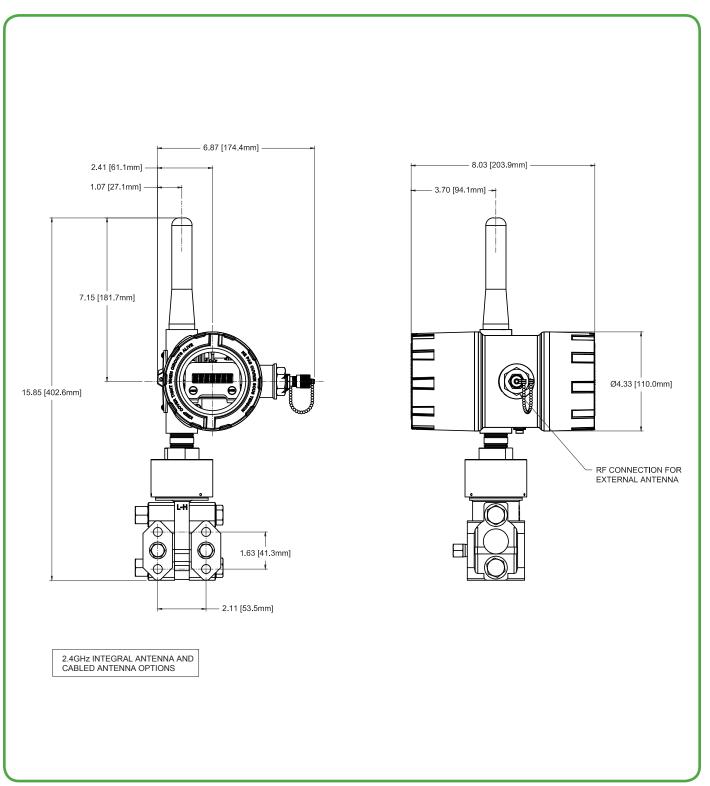
Product Data Sheet Accutech DP20 Specifications

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z license-free bands
its per base radio dios per network
ure ow
Windows®-based GUI software, providing network-wide monitoring and performance-management features uration capabilities
vith membrane-switch buttons pressure reading and detected messages, if applicable ng and RF parameters locally using membrane-switch buttons
RL including combined effects of linearity, hysteresis, repeatability and temperature (applies to standard unit als). I reduce accuracy due to thermal effects of fill fluid. Special ranges and accuracy may be available on reques
ct for positioning changes) and two-point (zero and span) calibration
span stability: less than ± 0.1% of sensor URL per year at 21°C (70°F)
900in H2O, +/- 25psi, -25 to +100psi, -25 to +300psi
requency Hopping Spread Spectrum (FHSS), FCC certified ISM license-free band Australia) 0, 19,200 or 76,800bps Hz ISM license-free band Frequency Hopping Spread Spectrum (FHSS) Radio 00kbps (FSK Modulation) Transmit Power: +10.6dBm sensitivity (0.1% BER): - 102dBm @ 50kbps, - 99dBm @ 100kbps iver Blocking Rejection: 64dB for CW @ +/- 5MHz, 74dB for CW @ +/- 30MHz
ication – indicates the need to replace the battery (approximately one month advance notification) e and hardware that continuously monitors operation. Any sensor or device parameter that is out of lentified and reported
(-40° F to +220°F) process connection temperature, steady state -40°F to +185°F) electronics -40°F to +185°F) display (below -20°C LCD visibility reduced) %, non-condensing
uinless Steel uminum enclosure m: 316L Stainless Steel (Hastelloy C available upon special request) inless Steel ligh Strength Alloy Steel
ower Thionyl battery ten years of service, depending on configuration
8-2-6 (vibration) and 2-27 (shock)
6 g's, 15 minutes per axis from 9 – 500Hz
cification in fields from 80 to 1,000MHz with field strengths to 30V/m. Meets IEC 61000-6-2 General Immunit 1000-6-4 compatibility emissions standard
LOC: Exia IIC; AEx ia IIC oups A, B, C & D, T3 AEx ia IIC, T3 oups A, B, C & D, T4 C: Ex ia IIC T3 ECC , IC ((R&TTE)
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	TBUADPTJ1N00S100NS 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
N	None
Code	Select: Integral Antenna
00	Integral Antenna (2.4GHz unit comes default with integral antenna and exter nal 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





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