SPECIFICATIONS -

BP20 Barometric Pressure Sensor

FEATURES

- High level linear voltage output
- Full-span or halfspan output option



The NRG #BP20 barometric pressure sensor is a micromachined absolute pressure sensor which provides a high level voltage output signal that is proportional to absolute pressure. It includes built-in temperature compensation, linearization, and an output amplifier.

Its low cost and rugged PVC enclosure make the BP-20 ideal for collecting absolute pressure data at remote sites.

SPECIFICATIONS

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Description	Sensor type	micro-machined integrated circuit absolute pressure sensor
	Applications	wind resource assessmentmeteorological studiesenvironmental monitoring
	Sensor range	15 kPa to 115 kPa (4.43 inches to 34.0 inches Hg)
	Instrument compatibility	 NRG Symphonie equipped with a BP SCM + any iPack any NRG 9300SA, NRG 9300CL or 9300TL equipped with a TPRH SIM card + PV/battery
Output signal	Signal type	linear analog voltage
	Transfer function	Absolute Pressure in kPa = (Voltage x 21.79) + 10.55 typical
	Accuracy	+/- 1.5 kPa max. uncorrected offset (+/- 0.443 inches Hg)
	Calibration	calibration sheet included with each sensor specifies offset correction
	Turn on time	15 ms
Power requirements	Supply voltage	7 V to 35 V DC
	Supply current	15 mA max. (8 mA typical)
Installation	Mounting	mounts directly to tower or inside steel shelter box with hose clamps (included)
	Tools required	5/16 inch hex driver or flat blade screwdriver



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Physical	Connections	wire leads: signal (green wire) ground (black wire) excitation (red wire) half-span signal (white wire) shield wire for earth ground
	Cable length	1.5 m (5 feet)cable diameter 4.8 mm (3/16 inches)
	Weight	0.1 kg (0.2 pounds)
	Dimensions	 57 mm (2.25 inches) diameter 112 mm (4.4 inches) length (including cable bushing)
Materials	Cable	4 conductor 22 AWG, with overall foil shield and drain wire, chrome PVC jacket
	Enclosure	weatherproof PVC

