

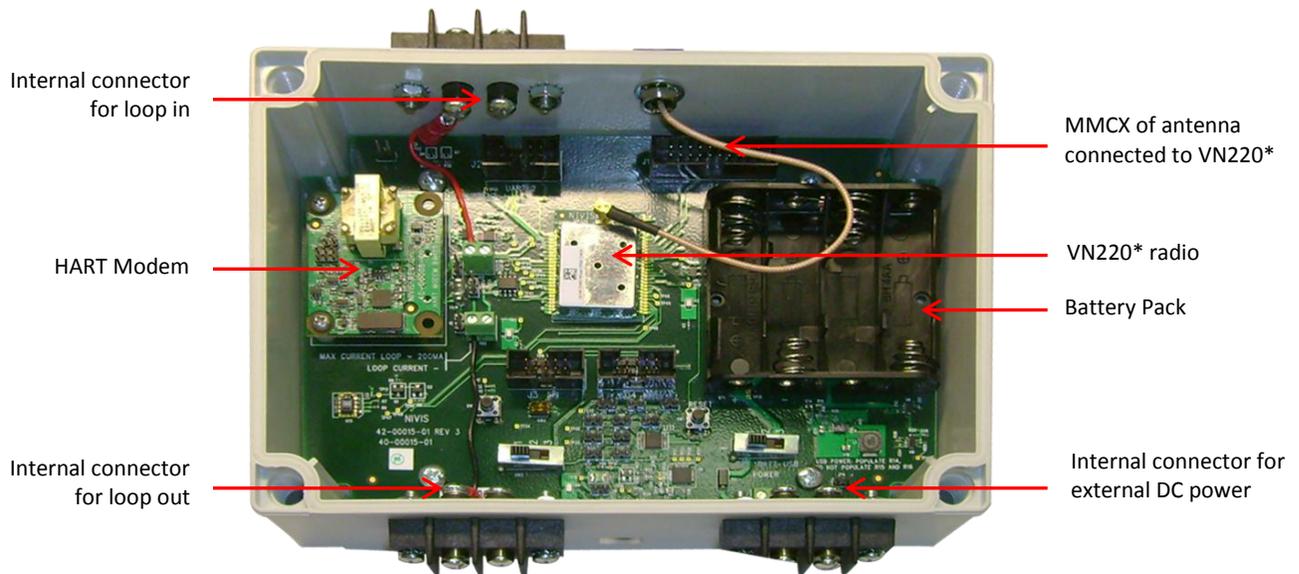


The Nivis VS220 is a development board designed specifically for WirelessHART to enable fast product integration and development for industrial wireless solutions.

The VS220 contains multiple I/O debug headers, LEDs, and test points needed for easy development. It enables customers to connect a variety of 4-20mA devices in order to transmit temperature or other sensor data using the WirelessHART protocol.

The VS220 is a component of the Nivis WirelessHART Development Kit and works seamlessly with the Nivis VR810/910 WirelessHART Gateway, which makes it the best choice for any company planning to deploy and manage standards based, wireless mesh networks. The VR810/910 automatically discovers the VS220 devices and provides customers with the network management tools required for fast and comprehensive management of industrial wireless sensors.

Peripherals/Software	Detail
Analog input	4-20mA Loop
HART FSK interface	Maintenance port only, separated from analog input
Radio	1 x VN210 IEEE802.15.4 radio module
RS232	1x RS232 (console port), RJ45 connector, up to 115kbaud, 16-byte buffer
Integrated sensors	Sensirion SHT-11 (Temp and Humidity)
GPIO	1x GPIO, 2x LED, 3 switches, 1 sensor
Other I/O	1x JTAG, 1x UART, 1x SPI BUS
Loop Accuracy	+/- 1% using a 12bit ADC
Electrical & Mechanical	Detail
Input Voltage	6..16 VDC (Either from battery, USB, or power connector)
RF sensitivity	-98dBm, 50% PER
Vibration	Up to 4G 15 to 2000Hz RMS
Board Dimensions	3.75in x 6.125in
Temperature Range	-40...+85C
Relative Humidity	Maximum 95%
Certifications	Detail
EMI	FCC U.S, Certified Part 15 class A unintentional emitter
EMI	IC Industry Canada
EMI	RTTE/ETSI conformity Europe
HART	WiHART; compliance with HART wireless specs



\* Please note that the VN210 and the VN220 utilize the same hardware, but different firmware.