Product Overview: MultiHop H10 Data Radio

Challenge

Condition monitoring in a large facility can be difficult when monitoring points are spread around the building into sometimes difficult and expensive-to-reach areas.

Banner's MultiHop H10 radio, in addition to having a strong radio signal, can also use repeaters to get to hard-to-reach locations. The H10 can accept up to six Banner 1-wire serial sensors daisy-chained into it. This lowers the cost per monitoring point and makes available all the registers that are available on the Modbus sensor counterparts for advanced analytics.

The MultiHop H10 radio also offers the flexibility of using battery power or 10–30 V DC power.

Banner Wireless Value

- **Easy to deploy**—Reduces the complexity of MultiHop installations with FlexPower[1] options
- **Compatibility**—Compatible with the Banner MultiHop Solutions Kit for Vibration Monitoring
- **Simple and powerful**—Access all available sensor registers as on comparable Modbus sensors
- **Peel and stick**—Battery powered and easy to deploy in the most rugged and hard-to-reach locations
- **Reduces complexity**—Machine or process reconfiguration is easier; great for retrofit applications
- **Flexible and robust**—MultiHop networks are self-healing, auto routing RF networks with multiple hops that extend the network range and improve radio link performance
- **Industrial Internet of Things**—Pair with a DXM Wireless Controller for remote monitoring through a local network or the Internet

[1] FlexPower devices can be powered by 10–30 V DC or by a battery supply module.



Banner MultiHop H10 Radio

- MultiHop radio with an M12 connector for use with any Banner 1-wire serial sensor
- Allows up to six 1-wire serial sensors to be connected at a time
- Compatible with the MultiHop Vibrations Solutions Kit
- Powered by 10–30 V DC or large D-cell battery with long battery life
- Transparency mode: global triggers make polling a sensor function identically to a wired Modbus sensor
- Battery life of more than three years

Key Monitoring Applications

- Rotating Asset Health
- Bearing Health
- Pump cavitation
- Rotor unbalance
- Gear boxes
- HVAC systems
- Fillers
- Tank level monitoring
- Temp/humidity monitoring

Models	Frequency	Additional Notes
DX80DR9M-H10	900 MHz ISM Band	Pre-wired M12 connector for use with any Banner 1-wire serial sensor (sold separately) Accepts up to six 1-wire serial sensors NB models are sold without their internal battery
DX80DR9M-H10-NB		
DX80DR2M-H10	2.4 GHz ISM Band	
DX80DR2M-H10-NB		

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