Q&A English Webinar – DigiRail Connect

QUESTIONS & ANSWERS

Below we present the list of Questions and Answers from the DigiRail Connect webinar on Oct 09th.

Issue	Question	Answer
Analog Input	Is the analog input passive or active?	Analog input is passive, it needs 1 to 36 Vdc from the sensor or through the current loop.
Analog Input	What is the resolution of the analog inputs?	The resolution is 16 bit (65535 levels).
Analog Input	Can be read any pressure signal?	Yes, it can be read any sensor that transmits 0-20 mA, 4-20 mA, 0-5 Vdc, 0-10 Vdc or 0-60 mV signal.
Analog Output	Is there a possibility to get better accuracy in analog output?	The maximum accuracy is 0.5% for all analog outputs.
Communication	Does DigiRail Connect work with RS485? Is it possible to connect it with other RS485 devices?	Yes, it is possible to connect into an RS485 network as a Modbus Slave or as a gateway from Modbus TCP.
Communication	Can one analog input on one device be mapped or sent to another device, as an output?	Yes, it is needed to use a SCADA or PLC, through the Modbus registers from both devices.
Communication	Is there a plan to incorporate web functionality?	We are studying and planning new updates.
Communication	Is this device compatible with NOVUS Cloud?	DigiRail Connect, which is an I/O module, does not have MQTT protocol, therefore does not communicate with cloud systems. It is a good suggestion, thanks.
Communication	Using DigiRail Connect as a gateway, does it work as Modbus RTU Master?	No, it will only send the messages received by the TCP host, packing the message on the RS485 network as a Master (only during that message). The answer will be send back to the host as a Slave on TCP side.
Communication	What values do Analog and Digital outputs of DigiRail Connect assume when there is a communication failure?	There is a configurable parameter called "watchdog", which defines the time for detecting loss of connection. When this time is reached, DigiRail Connect will assume the configured "safety value" until the connection is re-established.
Configuration	Can DigiRail Connect be configured through its webpage or it is only by software?	For now, it's only possible to configure with the software NXperience. We are studying and planning new updates.
Digital Input	For which application may I use the counter option?	Generally, it is used for flow rate sensors or conveyor belts, so it can count the volume of the product passing through the sensor.
Digital Input	What is the counting maximum frequency?	250 Hz for PNP and NPN inputs. 10 Hz for Dry-Contacts.
Installation	What are the maximum wiring distances?	For the temperature sensor, we suggest using a temperature transmitter 4-20 mA. The analog and digital signal will depend on the load resistance of the transmitter.
Operation Conditions	What will occur with the counters and integrators if there is a power failure?	DigiRail Connect uses non-volatile memory for the counter and integrator variables, so the values will be automatically reestablished on the power-up.
Operation Conditions	When it operates as a gateway may the I/O be accessed via Modbus TCP and use the other functions?	Yes, the device even acting as Modbus gateway it can still be accessed as a slave Modbus.
Product application	Could you envisage this product in home automation industry?	Yes, as it has multiples I/Os and network access, it is suitable for the home automation industry needs.
Product Application	Will DigiRail Connect replace Airgate-3G?	No, DigiRail is a multi I/O module, while the Airgate-3G is a VPN router.
Product Application	What is the advantage of using the I/O modules on PLC?	The advantage is to be remote, as you don't need DigiRail to be near or connected to the PLC. The point is using it on projects that need more density of measuring points on a

		distributed site.
Product Application	Can I use this device with a BACnet network?	Yes, but it needs to be used with a BACnet gateway. We can provide this gateway if needed.
Relays	What is the load current on the relay contacts?	For the SPDT 6 A, and for the SPST 3 A.
Sales	When will the 8DI/8DO module be released?	There is an estimation to release in Q4/2019.
Sales	What is the availability of DigiRail connect for purchasing?	The product is available for all customers right now.
Updates	There will be a model with more analog inputs or with a PID control option?	We are studying and checking new requirements for planning new versions.