

WM CONFIG TOOL - QUICK START GUIDE

Connection and scanning



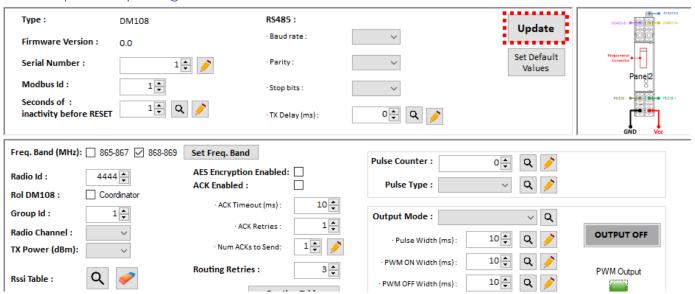
• CONNECTION:

- Select AdvanticSys Programmer option.
- Connect a data microUSB cable between DM108 and PC.
- Windows should detect a COM PORT generated by DM108. If not, please check the data cable.
- Choose the correct COM PORT.
- Finally, click on CONNECT button. If the COM port is not busy, the button text changes to DISCONNECT and the back-colour to pink.

SCANNING

- By clicking the magnifier button, it will scan to the DM108 connected to the PC. The configuration of the DM108 connected will be showed.
- If you have connected a Coordinator to PC, it will be able to discover, also, near DM108 endpoints.

How to update any change on DM108



Any change made on the configuration of DM108 will be applied after clicking on the **UPDATE** button. However, there are three values which will be updated only by clicking on the **PENCIL** button: Seconds of inactivity, TX Delay and Num ACKs to send.

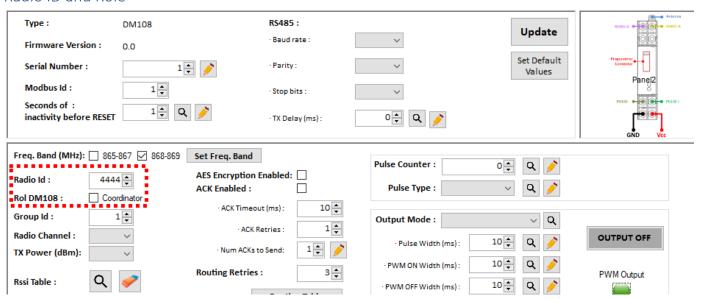


Modbus Id



The Modbus ID should be range from 1 to 247, attending to Modbus standard.

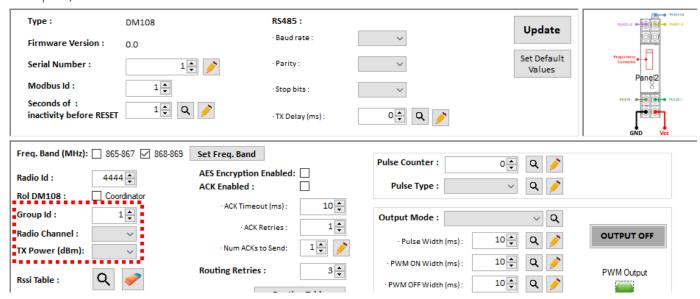
Radio ID and Role



The role of DM108 could be **Coordinator** (master) or **Endpoint** (slave). When *Coordinator* is checked on WM Config Tool, automatically the *Radio ID* has the value of **257**. If *Coordinator* is not checked, the radio ID could be range from **258** to **65279**. That is because the radio ID **257** is unique for Coordinators.



Group ID, Radio channel and TX POWER

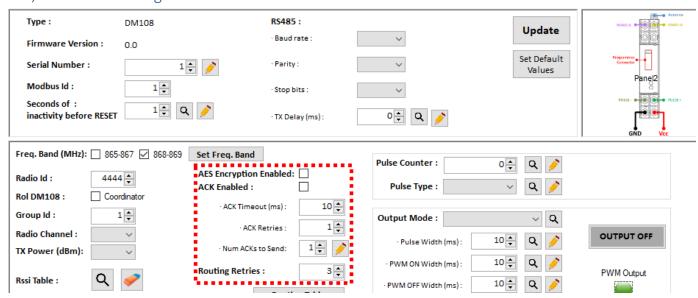


The **group ID** has a range from 0 to 255.

Radio channel: from 0 to 9.

TX POWER: from +9dBm to +25dBm*.

AES, ACKs and Routing



It's recommended to always use the AES Encryption for security reasons, so by default, leave that option checked.

Also, for **ACK enabling**. When ACKs are enabled, it is recommended next values:

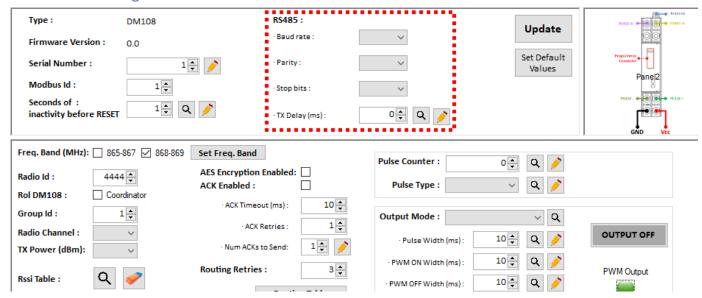
- ACK Timeout: from 70 to 100ms.
- ACK Retries: from 1 to 3.
- Num ACKs to send: from 2 to 4.

When the DM108 is a *Coordinator*, it has the possibility to configure the **Routing Retries**. The Coordinator saves in its memory the routing paths of each endpoint: when a path fails, the Coordinator use the retries to try again the same path. If it exceeds the retries, it will remove the path and try to discover a new one.

^{*+26}dBm and +27dBm are forbidden, so please, don't use them.



RS485 UART configuration



The DM108's RS485 port could be configured:

o **Baudrate**: 2400, 4800, 9600 or 19200

Parity: None, Odd or Even.

o Stop bits: 1 or 2.

o **TX Delay**: recommended to leave it to 0 ms. It is only necessary for slow devices.