NOTES:
1. WARNING: This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product’s name tag and national and local codes.

Dip Switch factory default address is set at 0. If another COMM INTERFACE TFIO is added, move that Dip Switch setting to 1. If more are added, use the next address in line for each.

Changing the address applies only to TFIOs of their own type, and not TFIOs of another type; those would also start at 0 and add new address of their own.

TIP: While 0 is recommended for the first one, any address can be used (but keep in mind the original config files in our software are built with this address and factory tests will look for it).

2. LED Indicators on TFIO:
   - Run LED – Blinking indicates on-board PIC running.
   - Activity LED – Blinking indicates bus activity.
   - Mode LED – 00 = Normal 01 = Reset

3. LED Operation:
   - Register 0.7.7 = 0 – Power Save Mode (LEDs off when MMI disconnected)
   - Register 0.7.7 = 1 – LEDs on all the time.

4. Must have a Communications application instantiated for each COMM Module

PRIMARY SETUP ITEMS FOR THESE MDS RADIOS:
1. Mode R.
2. ADDR XXXX - where (xxxx) is radio’s address, which is also the same as the Master Radio’s Address.
3. SLEEP ON.
4. BAUD 9600 8n1 - (other baud rates can be used but needs to match flow computer’s baud rate).

Note: Typically, all other setup items can be left in their default state, except for the following radio-specific changes:

Recommended changes for X710 “A” model GE MDS radios

Remove Request to Send (RTS) wire from the Totalflow connected device. RTS is not required on “A” radios and could be a source for spurious unintended transmissions (chirping). Tie this wire back and tape so that it doesn’t make electrical contact with any other electrical wiring or ground source.

GE MDS software setting changes:
DATAKEY = ON, set to on so that the radio will key on data without the need for RTS from the Totalflow device.
PTT delay = 30 milliseconds, defaults to 0, change to 30 to eliminate the spurious unintended transmissions (fast chirping) in the 5-25 milliseconds range.

Recommended changes for X710 “B” model GE MDS radios

GE MDS software setting changes:
PTT delay = 30 milliseconds, defaults to 0, change to 30 to eliminate the spurious unintended transmissions (fast chirping) range in duration from 5-25 milliseconds

NOTE: Request to Send (RTS) must be utilized on all “B” radios for proper operations.

REF: NA