



Remote Site information:

Define the inputs that will be wired to the IOX product

Step 1: Define the Inputs into MDS IOX

- A. PtP (Point to Point) or PtMP (Point to Multipoint)?
 - a. How many remote sites are you looking at collecting I/O and data from?

- B. For Each Remote location where you are collecting I/O Define the types of I/O types you plan on connecting to the MDS IOX:

Please Circle all that apply
 - 1. Analog 4-20 mA: Number of Inputs Needed?_____
 - 2. Analog 1-5 VDC: Number of Inputs Needed?_____
 - 3. Analog 0-10 VDC: Number of Inputs Needed? _____
 - a. If Analog input, do we need to provide power to the transmitter (sourcing the loop)?
 - 4. Digital Inputs/Outputs (16 Available): Number of each Needed?_____

- C. For Each category above that is circled Please specify the type of input that it is. As an example, is it a Flowmeter, Level Transmitter, Pressure transmitter. Be specific on finding out what is the actual input and what it is used for. This helps in defining things at the Host side.

- D. What is your GEMDS ORBIT communication link preference to send the data back to the Host?
 - A. Cellular?
 - B. Licensed Radio Frequency (FHSS, UHF, VHF etc....)?
 - C. Unlicensed 900MHz?
 - D. Enhanced WiFi?
 - E. Fiber (Multimode or Single Mode, 2Km or 30Km)?
 - F. Ranger: 4GLTE Cloud-Instance

- E. Will this be replacing a NETio system?
 - a. Type Expansion Module? [1,2,3,4,6,7]



Host Site/Head Site information:

Define the Outputs that will be collected at the Head End

Step 1: What Outputs are required at the Head End that will be needed to be collected by the Host system

- A. PtP or PtMP?
- B. What is the Host at the head end location that will be collecting the data from the Remote Site or Sites? Define (PLC, DCS, Computer, etc.) Be specific and find out the Manufacturer
- C. How do you plan on collecting from the remote site into your Host System? Circle each one that applies. (Note: MDS IOX Solutions can support both, simultaneously, if needed.)
 - Digital Communication Protocol
 - Signal Regeneration/IO Mirroring

If Digital Protocol, what type? Circle one below:

- Modbus TCP (Standard)
- Modbus RTU (Standard)
- DNP (requires MDS IOX-T configuration form)
- OPC UA (requires MDS IOX-T configuration form)
- MQTT (requires MDS IOX-T configuration form)
- Allen Bradley EtherNET/IP™ (requires MDS IOX-T configuration form)
- SNMP (requires MDS IOX-T configuration form)

If Signal Regeneration:

Define the Output needed such as Analog Output or Relay Output

If Multiple remote sites for Signal Regeneration the MDS IOX-M configuration form will need to be filled out.



Host Site/Head Site MOUNTING information:

Step 1: How would you like this mount the GEMDS I/O Solution?

- A. Accessory Plate? Able to be mounted in existing MDS WSG-P70s or used as a small, assembled plate.

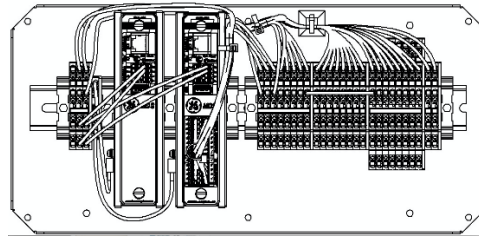


Diagram shows IOX-T, IOX-R, 26 IO assembly. Dimensions: 178 mm (H) x 178mm (D) x 368 mm (W), 7.0" x 7.0" x 14.5"

- B. Wall Plate? Able to be mounted on a wall, inside a rack or a drop in for new IOX Enclosures.

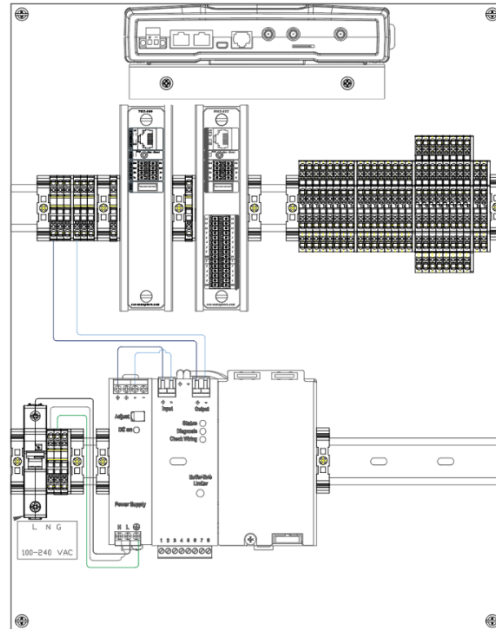


Diagram shows IOX-T, IOX-R, 26 IO assembly with an MDS Orbit and AC with Battery Backup. Dimensions: 178 mm (H) x 178mm (D) x 368 mm (W), 7.0" x 7.0" x 14.5"

- C. Enclosure?
- Power input?
 - If AC power, battery? (5 AH, 12 AH or No Battery)
 - MDS Orbit Radio installed or does customer have existing?



MDS Overall System Topology configuration:

Summary of Application & Special Requests

Describe the overall application and requirements. This information is helpful if the customer is requiring GEMDS to do any specials or custom programming.

A simple drawing is always helpful: