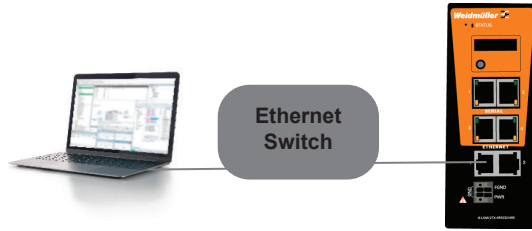


IMPORTANT: See back cover for warnings and user requirements.

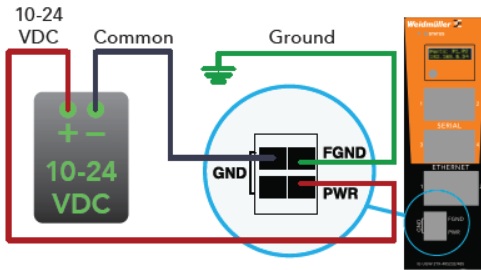
1. Connect to Network

Connect an Ethernet cable between an Ethernet port on the Gateway and the Ethernet Switch, and connect an Ethernet cable between the Ethernet Switch and PC.



2. Connect Power Supply

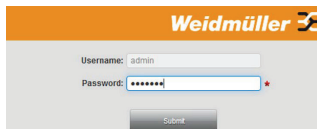
Once the Gateway boots, the IP address will display on the Gateway.



Wire size: 22-14 gauge (2 mm) stranded Tightening torque, min 0.22 Nm (2 in/lbs.)

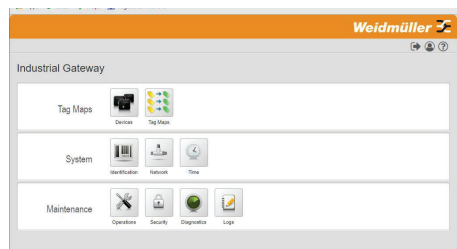
3. Login to the Gateway

Type the default IP address **192.168.1.100** into your web browser. The User Interface dialog appears:



Enter the default password: **Detmold**

After changing the password, the main Gateway dialog appears:



Required from User:

- 24 VDC power supply, all cables and wiring, and Ethernet switch.
- Device rating: 10-24 VDC 3W

Models Covered:

- IE-UGW-2TX-2RS232/485
- IE-UGW-2TX-4RS232/485

Questions?

Access our built-in online help.

Note:

Ambient Temperature Range: 0-55°C

ATEX

- Ex ec IIC T6 Gc
- Ex II 3G
- UL 20 ATEX 2469X
- EN 60079-0:2018 &
- EN 60079-7 :2015+A1 :2018



Special condition for safe use (ATEX)

1. Provision shall be made to prevent the rated voltage being exceeded by transient disturbances of more than 140% of the peak rated voltage.
2. The system shall be mounted in an ATEX certified enclosure with a minimum ingress protection rating of at least IP54 (in accordance with EN 60079-15) and used in an environment of not more than pollution degree 2. The enclosure shall be accessible only with the use of a tool.

SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C, AND D HAZARDOUS LOCATIONS, OR NONHAZARDOUS LOCATIONS ONLY.

WARNING - EXPLOSION HAZARD

DO NOT DISCONNECT EQUIPMENT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS.

AVERTISSEMENT - RISQUE D'EXPLOSION

Ne déconnectez l'équipement tandis que le circuit est sous tension ou si la zone est connue pour être libre de Concentrations in-ammables.

This device shall be installed in an enclosure which can only be opened with the use of a tool. Cet appareil doit être installé dans un boîtier qui ne peut être ouvert qu'avec un outil.

Industrial Gateway

Quick Start Guide



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4. Time Setup

Set Up Time icon:



The Time Setup dialog appears:

Time Setup dialog box. It has two tabs: Manual and NTP. The Manual tab is selected. It shows fields for New Date (11/08/2020) and New Time (9:08 PM). There are radio buttons for Apply DST and Update Rate (1 Days). The NTP tab is also visible, showing NTP Server Address (Spectrums NTP 1) and GMT Offset (GMT-07:00 Mountain Time (US & Canada)).

Options are:

- Manual. Enter the correct date and time.
- NTP. Select a time zone.

5. Configure Network Setup

Select the Network icon:



The Network Setup dialog appears:

Network Setup dialog box. It has two tabs: Static IP and DHCP Client. The Static IP tab is selected. It shows fields for IP (192.168.164.187), Subnet Mask (255.255.255.0), Gateway (192.168.164.1), DNS1, and DNS2.

If setting a Static IP, identify the IP address you plan to use.

NOTE: Gateway and DNS1 are required only if NTP is selected in Time Setup. (see step 4)

6. Add Devices

Select the Devices icon:



Adding an Ethernet Device:

1. Name the Device.
2. Select the appropriate Ethernet protocol.
3. Select the appropriate TCP Port.
4. Enter the IP address of the Ethernet device being connected to the Gateway.
5. If necessary, enter the slot number where the processor is located.
6. Click Test Device Connection button.

Device Properties dialog box. Fields include Device Name, Protocol (EtherNet/IP-PCCC), TCP Port (44818), and Address (192.168.164.32). There is a Test Device Connection button.

Adding a Serial Device:

1. Name the Device.
2. Select the protocol the serial port will be using.
3. Configure the serial port to which the device will be connected. (See Step 7)
4. For most applications “Slot Number” should be left at “0”.
5. Select the type of error checking used by the PLC’s serial port protocol.
6. Some applications need the ACK Timeout, NAK Retries, and ENQ Retries values adjusted. If uncertain, use the default values.
7. Click Test Device Connection button.

Device Properties dialog box. Fields include Device Name, Protocol (DF1-CIP), Serial Port (Serial 1), Slot Number (0), Checksum (CRC), ACK Timeout (50 x20ms), NAK Retries (3), and ENQ Retries (3). There is a Test Device Connection button.

7. Configure Serial Ports

Configure the serial port on the Gateway to match the serial port configuration of the device to which you are connected.

Serial Port Setup dialog box. Fields include Serial Port (Port 1), Baud Rate (19200), Data Bits (8), Stop Bits (1), Parity (none), Handshake (none), and Connection Type (RS232). There are Submit and Cancel buttons.

8. Add Tags

The Gateway moves tag data between connected devices. For each device connected to the Gateway, specify the tags from which data will be read, and the tags to which that data will be written.

To add tags, select a device you added, and select the Add Tags icon:



The Tag Properties dialog appears:

Tag Properties dialog box. Fields include Tag Name, Description, Data Type (INT), Address, Byte Swap, Word Swap, and Is Array. There are Submit and Cancel buttons.

Specify the following:

- Tag Name: Name the tag.
- Data Type: Select data type of the named tag.
- Address: Enter the name of the tag in the PLC, or the address of the tag depending on the protocol.
- Byte Swap/Word Swap/Is Array: Refer to user’s guide for more detailed information. In most applications, these boxes can be left unchecked.
- NOTE: Tags can be imported from a .csv file.

9. Create Tag Maps

A tag map executes a tag copy between PLCs.

Select the Tag Map icon:



To add a Tag Map, select the Add Tag Map Icon:



The Tag Map Editor dialog appears:

Tag Map Editor dialog box. It has two tabs: Available Tags and Copy Tags. The Available Tags tab shows a list of tags from various devices. The Copy Tags tab shows Source and Destination fields, Name, Tag, and Polling Rate (100 ms).

1. Specify the Source tag.

i. From “Available Tags”:

- a. Select a Device.
- b. Select the Tag that will be used as the data Source.
- c. Confirm the Source field is highlighted, and select the Move Tag button:



2. Specify the Destination tag.

i. From “Available Tags”:

- a. Select a Device.
- b. Select the Tag that will be used as the data Destination.
- c. Confirm the Destination field is highlighted, and select the Move Tag button.

3. Repeat steps 1 and 2 for each additional Source/Destination tag pair needed.

4. Name. Enter a name for the Tag Map.

5. Specify when a tag map executes:

- On Change: Executes a tag map on the state change of a specified tag.
- Periodic: Executes the tag map on a user defined rate of frequency.

10. Activate Tag Map & View Live Tag Map Data

1. Activate the Tag Map to begin communication between the Source and Destination tags, select:



2. Select the Live Tag Map Viewer to view the transfer of tag data:

