TECH NOTES

FT-3400 SERIES INSERTION ELECTROMAGNETIC FLOW METERS

HOW TO USE ONICON AUTODESK® REVIT® FAMILY

OVERVIEW

The ONICON Revit Family is easy to use and incorporate into any project using Revit 2018 or later. The meter(s) will automatically connect to the piping system at the same elevation, inherit system types and provide installation guidance.

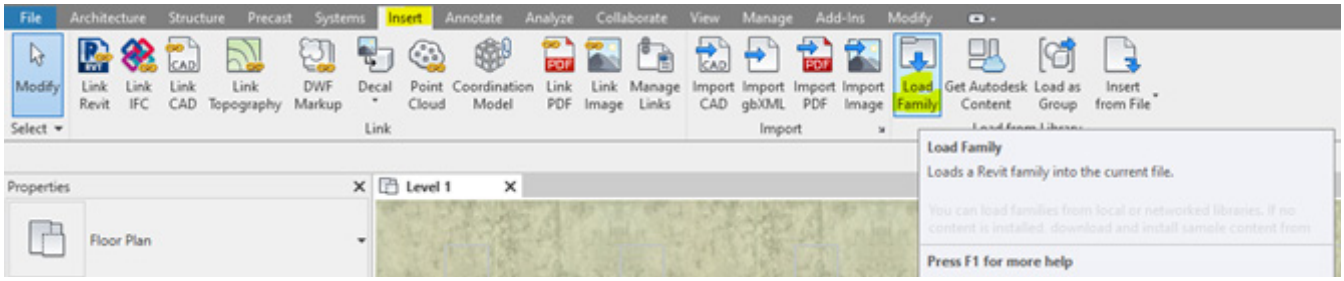
Further explanation of properties are provided with Tool Tips. Tool Tips are accessible by hovering over each parameter in the properties window.

TOOLS REQUIRED

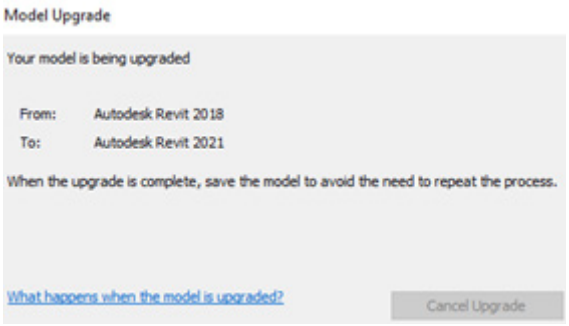
- Revit 2018 or later
- ONICON Revit zip file, located on the product page of the website.

INSERT THE FAMILY INTO A PROJECT

1. Unzip the downloaded file and place the folder in desired location.
2. In a floor plan view (Revit 2018 or later), navigate to the Insert tab on the ribbon and select **Load Family**.



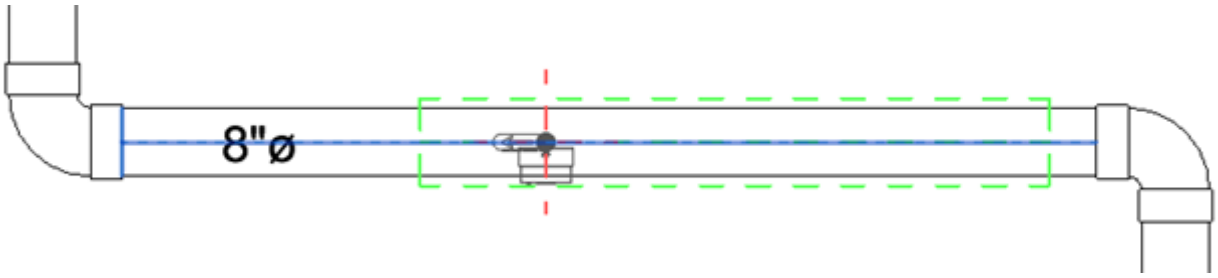
3. Locate the .RFA file in the saved location and select **Open**. The model will automatically upgrade if the current version of Revit is 2018 or later.
4. The model will upgrade to your version of Revit if later than Revit 2018.



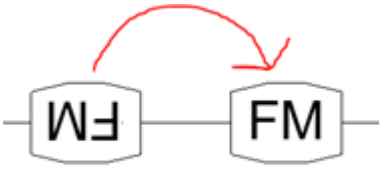
5. The family will be added to the Project Browser in the Families section, located under the **Pipe Accessory** category.

ADD FAMILY TO PIPE SYSTEM

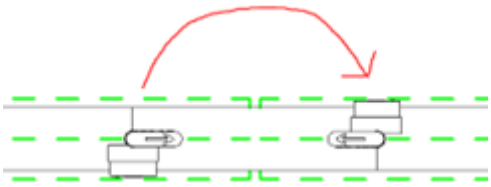
1. Click and drag the family from the Project Browser into a pipe. The centerline of the pipe that the meter will cut into will highlight. with the meter selected, in the properties window, the following sections apply:



2. **Graphics**
   Symbol Flip - In a medium or course detail level, if the text is not upright, select the toggle box to correct.

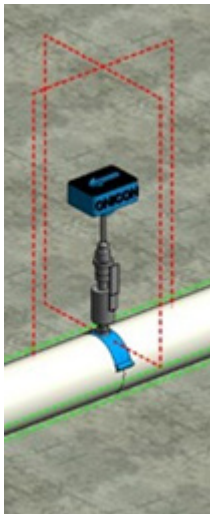


3. **Text**
   Change this from the default "FM" to "FT" or user define for your nomenclature for a flow meter.
4. **Dimensions**
   Input Pipe Diameter in the PIPE DIAMETER parameter
5. **Mechanical**
   Max Flow - Design - User input for maximum design flow rate.
6. **Mechanical - Flow**
   Displays min and max flow rate of meter at selected size
7. **Data**
   This section of check boxes aides in the ordering of the flow meter and the options available for the model (communications, Bluetooth, NEMA rating, cable length, etc.)
8. **Identity Data**
   Mark - User input for name of individual meter mark value (Ex: FM-1, FM-2, etc.)
9. **Visibility**
   Flow Direction One Way - Toggle this box to change the flow direction arrow. This will change the stream recommendation box accordingly for upstream and downstream clearances.



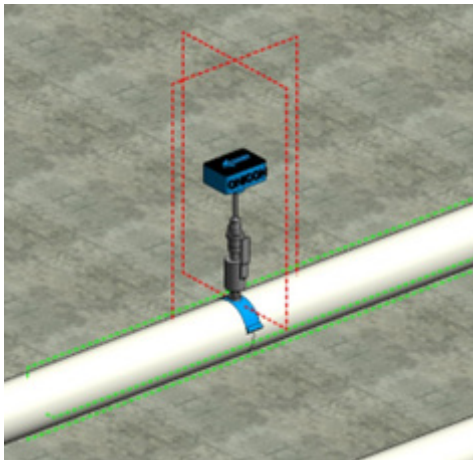
Bidirectional Flow Meter - This toggle box will remove the flow directional arrow from the top of the meter and will update the flow recommendation box accordingly.

Installation Clearance Vis - This box toggles the visibility of the red installation clearance box required for installing the flow meter.



Stream Recommendation Box - This box toggles the green stream recommendation box. This is a recommendation for straight run of pipe before and after obstructions. Please speak with your ONICON representative if you cannot meet this recommendation in your piping as there are options for meters that do not have the amount of straight run recommended.

Pipe Saddle Installation - Toggles visibility of the Pipe Saddle for PVC or Carbon Steel Installation.



Weldolet Installation - Toggles visibility of the Weldolet installation.

10. **Other**
    "...Tap for..." - Select the specific application of pipe for the installation kit required for the meter.

System-1000 Flow and Energy Measurement System
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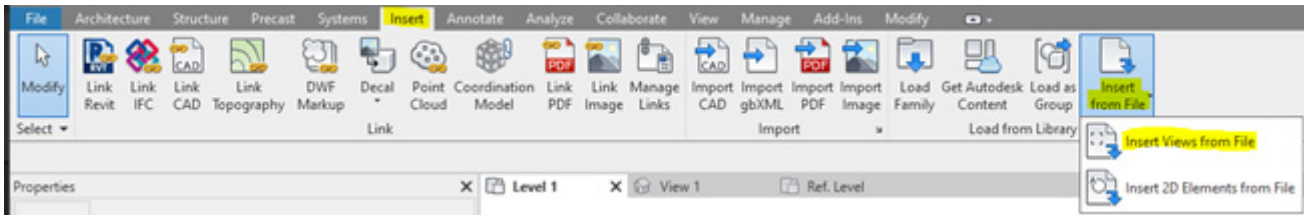
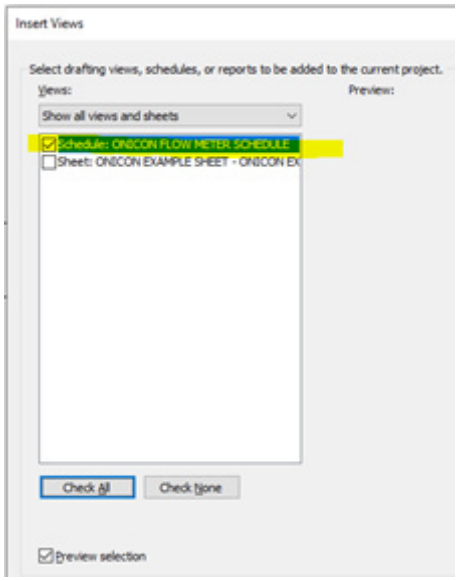
INSERT ONICON SCHEDULE INTO A PROJECT

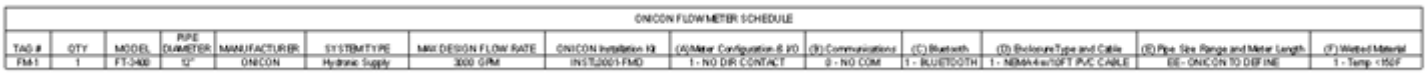
1. In a floor plan view (Revit 2018 or later), navigate to the Insert tab on the ribbon, select **Insert Views from File** and navigate to **ONICON_FLOW_METER_SCHEDULE.rvt**.



2. Select the Schedule: **ONICON FLOW METER SCHEDULE** and insert into project.



3. In the Project Browser in the Schedules/Quantities, the newly added schedule **ONICON FLOW METER SCHEDULE** is listed. ONICON Meters in the project will automatically be populated into this schedule. If an installation kit or transmitter cable length are not specified, the cell will highlight as an alert.



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Flow and Energy Measurement

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