

TECH NOTES

FT-3000 Series Inline 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.

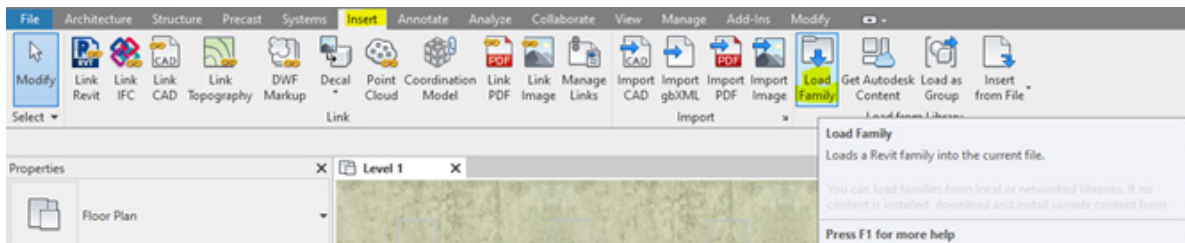


TOOLS REQUIRED

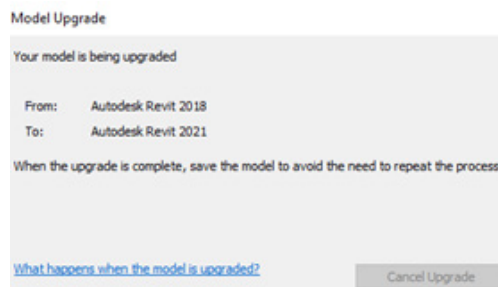
- Revit 2018 or later
- ONICON Revit zip file, located on the product page of the website.

INSERT THE FAMILY INTO A PROJECT

1. Unzip the downloaded file and place the folder in a 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 family will be added to the Project Browser in the Families section, located under the Pipe Accessory category.

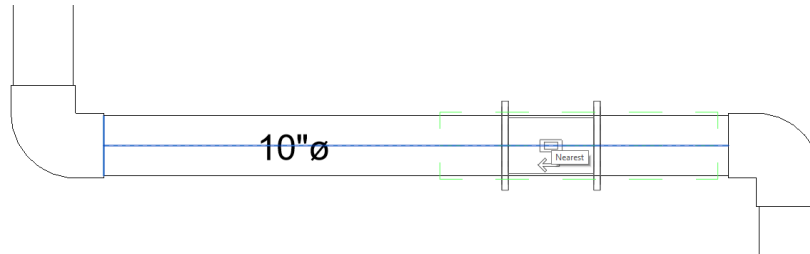
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ADD THE FAMILY TO A PIPE SYSTEM

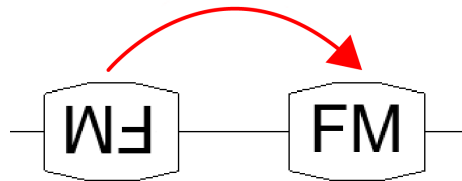
1. Click and drag the family from the Project Browser into a pipe. The centerline of the pipe, where the meter will cut into, will be highlighted.



With the meter selected, in the Properties window, the following sections apply:

1.1 TEXT

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



1.2 MECHANICAL - FLOW

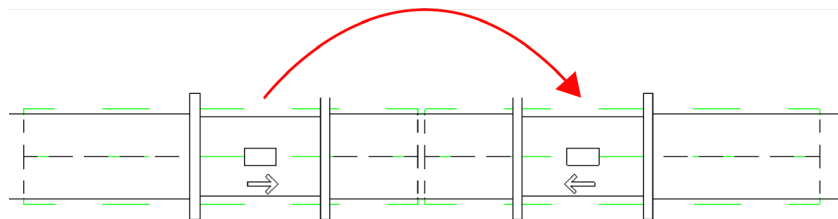
- **Max Flow – Design** - User input for maximum design flow rate, this value will populate into the meter schedule.

1.3 IDENTITY DATA

- **Mark** – User input for name of individual meter mark tag (i.e FM-1, FM-2, etc.).

1.4 VISIBILITY

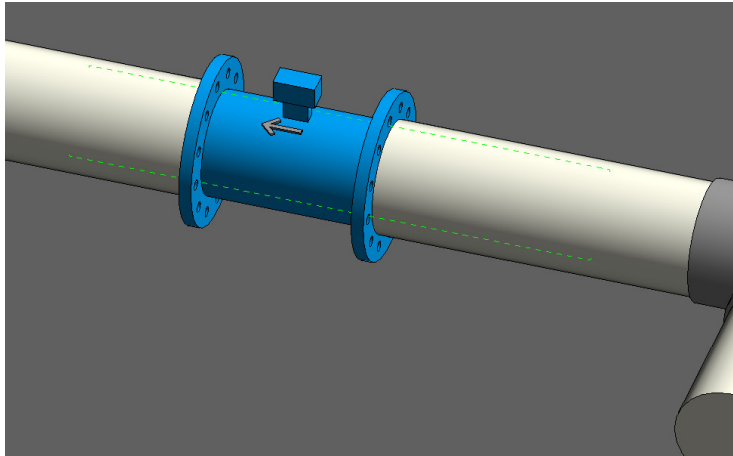
- **One Way Flow Direction** – Toggle this box to change the flow direction arrow. This will change the stream recommendation box for upstream and downstream clearances.



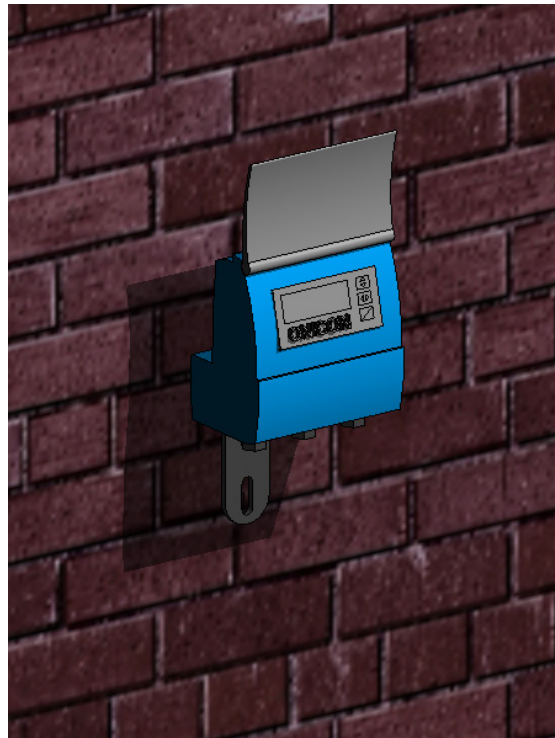
- **Bidirectional Flow Meter** – This toggle box will remove the flow directional arrow from the top of the meter and will update the flow recommendation box.

1.4 VISIBILITY (CONTINUED)

- **Flow 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 refer to the FT-3000 Series IOM for a full list of installation considerations.



- **Remote Transmitter Mount** - The ONICON FT-3000 Series Transmitter Family may also be inserted into a project and placed at a desired location on a wall or support structure. Shown below is the Remote Mount option away from the sensing unit. For transmitters that will be mounted to the sensing unit's body, uncheck the Remote Transmitter Mount box on the sensing unit family under the visibility section in the properties window.

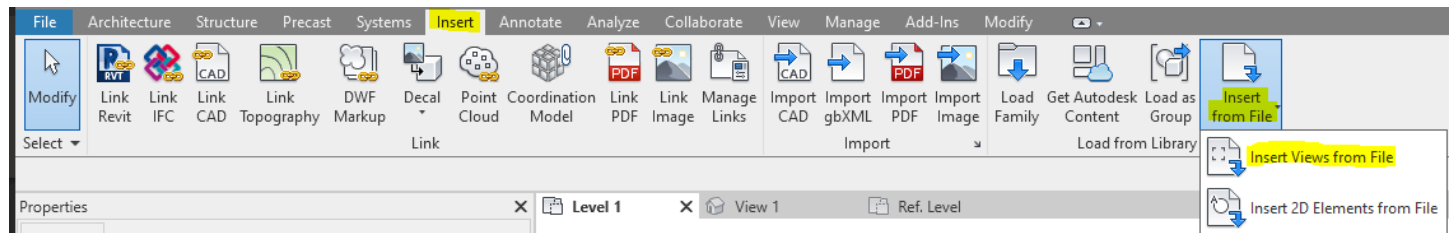


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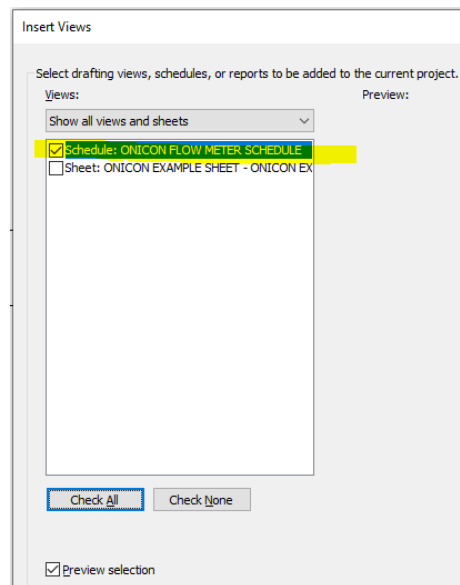
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INSERT ONICON METER SCHEDULE INTO A PROJECT

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**.



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



3. In the Project Browser under 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 the transmitter cable length is not specified, the cell will highlight as an alert.

ONICON FLOW METER SCHEDULE									
TAG	QTY	SIZE	MODEL	MANUFACTURER	SYSTEM TYPE	MAX DESIGN FLOW	TRANSMITTER CABLE LENGTH	GROUNDING	INPUT POWER (DC)
FM-4	1	10"	FT-3000	ONICON	Hydronic Supply	0 GPM	100ft	Grounding Rings Required	24 V
FM-5	1	4"	FT-3000	ONICON	Hydronic Return	0 GPM	100ft	Grounding Rings Required	24 V

