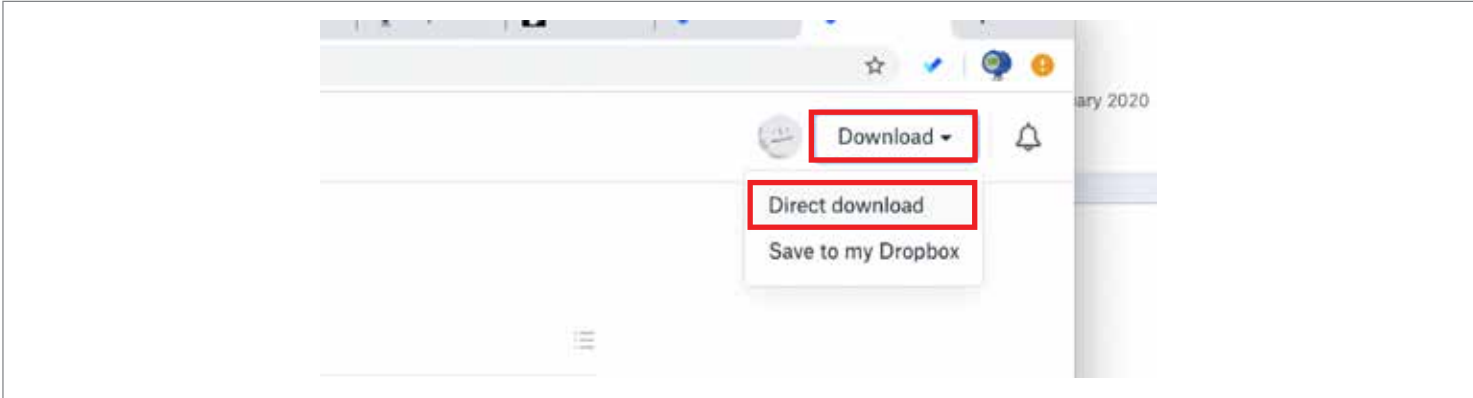


# TEK-COR 1100A

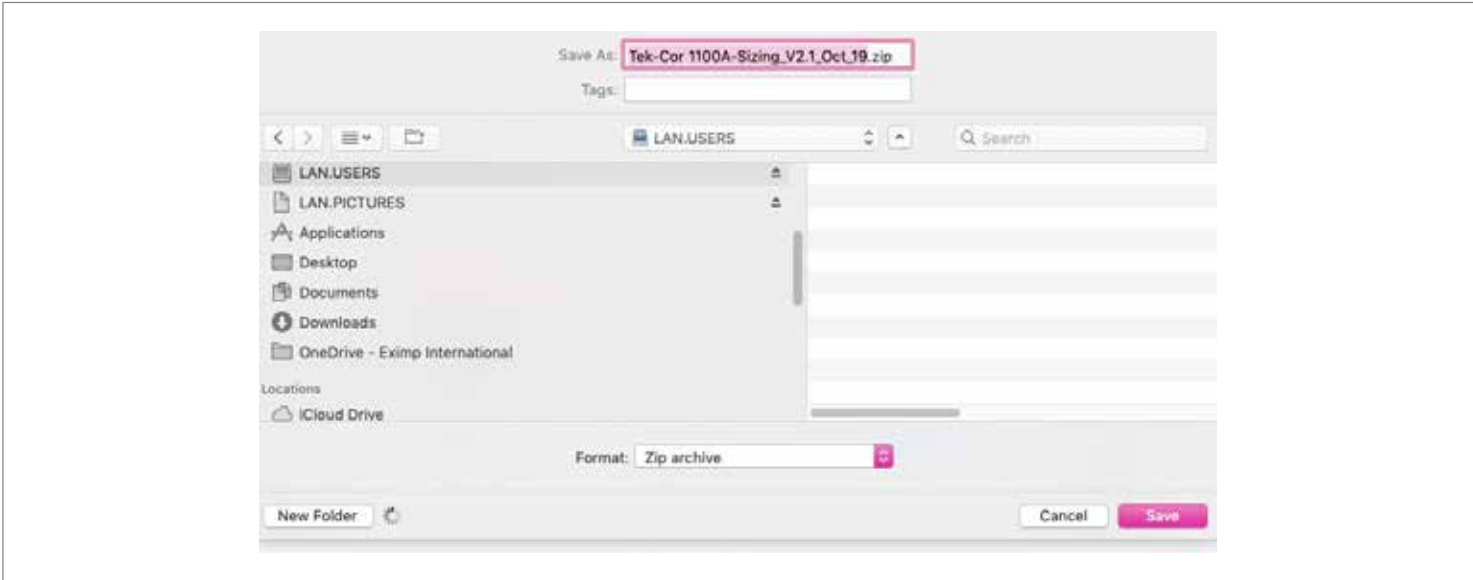
## Coriolis Flow Meter



▶ After clicking on “Download Software” please click ‘Direct download’:



▶ Save the zip file:



▶ Double click on the downloaded zip file, to unzip the file:



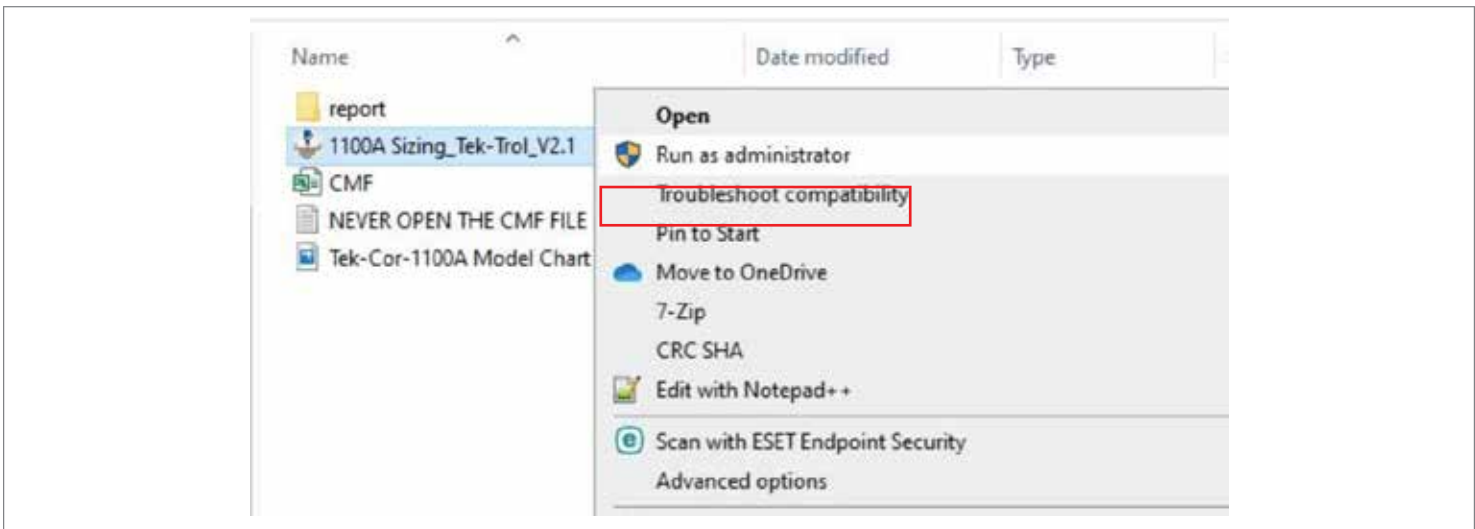
▶ Open the unzipped file in folder format:



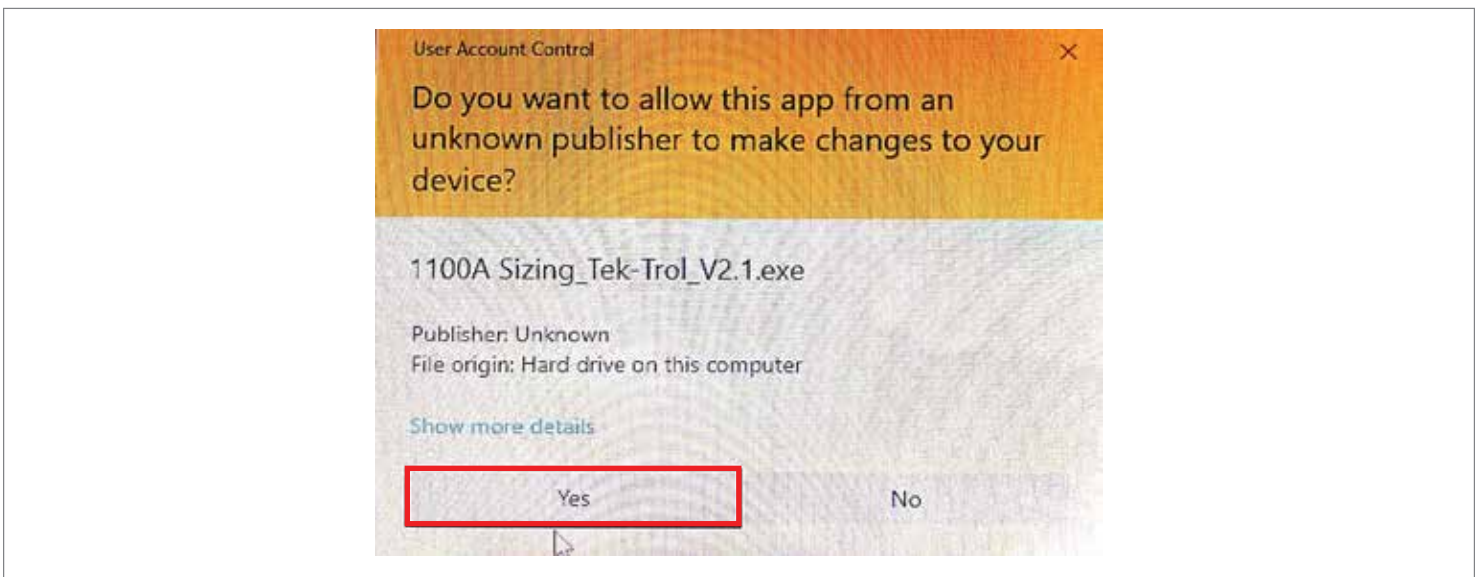
Now double click exe file:



Right click and then 'Run as administrator':



On the user account control pop-up click 'Yes':



### U-Type:

Step 1 - Fill out application information

(Select size DN: 80)

The screenshot shows the 'Tek-Cor V2.1' software window with the 'Process Condition' dialog box. The 'Fluid' field is empty, and the 'Tag' field contains 'FIT-001'. The 'Sensor Type' section has 'U-Type' selected. The 'Size [DN]' field is set to '80 mm'. The 'Calculator' button is highlighted with a red box. Other fields include 'Opr. Density' (1000 Kg/m3), 'Viscosity' (1 mPa.s), 'Max Rate' (100000 kg/h), 'Nor Rate' (50000 kg/h), 'Min Rate' (10000 kg/h), 'Temperature' (20 DegC), 'Pressure' (1.6 MPa), and 'Allowable Dp' (20 KPa). The 'Further Process Data' section includes 'Max Temp', 'Min Temp', 'Max Press', 'Min Press', and 'Pipe Size' fields.

Step 2 – Click calculator button for below results

The screenshot shows the 'Tek-Cor V2.1' software window with the 'Process Condition' dialog box. The 'Fluid' field is now filled with 'Oil'. The 'Tag' field remains 'FIT-001'. The 'Sensor Type' section has 'U-Type' selected. The 'Size [DN]' field is set to '80 mm'. The 'Calculator' button is highlighted with a red box. Other fields are the same as in the previous screenshot.

Step 3 - Make sure the results are acceptable (Click Exit)

Calculation Sheet

Flow (lb/h)	Accuracy (%)	Pr.Loss (Psig)	Velocity (ft/s)	Reynold
220462.26	0.20	2.8	20.65	333615
200620.6566	0.20	2.4	18.80	303590
180779.0532	0.20	2.0	16.94	273564
160937.4498	0.20	1.6	15.08	243539
141095.8464	0.20	1.2	13.22	213514
121254.243	0.20	0.9	11.36	183488
110231.13	0.20	0.8	10.33	166807
101412.6396	0.20	0.7	9.50	153463
81571.0362	0.20	0.4	7.64	123438
61729.4328	0.20	0.3	5.78	93412
41887.8294	0.20	0.1	3.92	63387
22046.226	0.20	0.0	2.07	33361

**Exit**

Step 4 – Click next button

Tek-Cor: V2.1

**Process Condition**

Fluid: Oil  
 Tag: FIT-001

Liquid  
 Gas

Further Process Data:

Opt.Density: 1000 Kg/m3  
 Viscosity: 1 mPa.s  
 Max Rate: 100000 kg/h  
 Nor Rate: 50000 kg/h  
 Min Rate: 10000 kg/h  
 Temperature: 20 DegC  
 Pressure: 1.6 MPa  
 Allowable Dp: 20 KPa

Max Temp: F  
 Min Temp: F  
 Max Press: Psig  
 Min Press: Psig  
 Pipe Size: inch

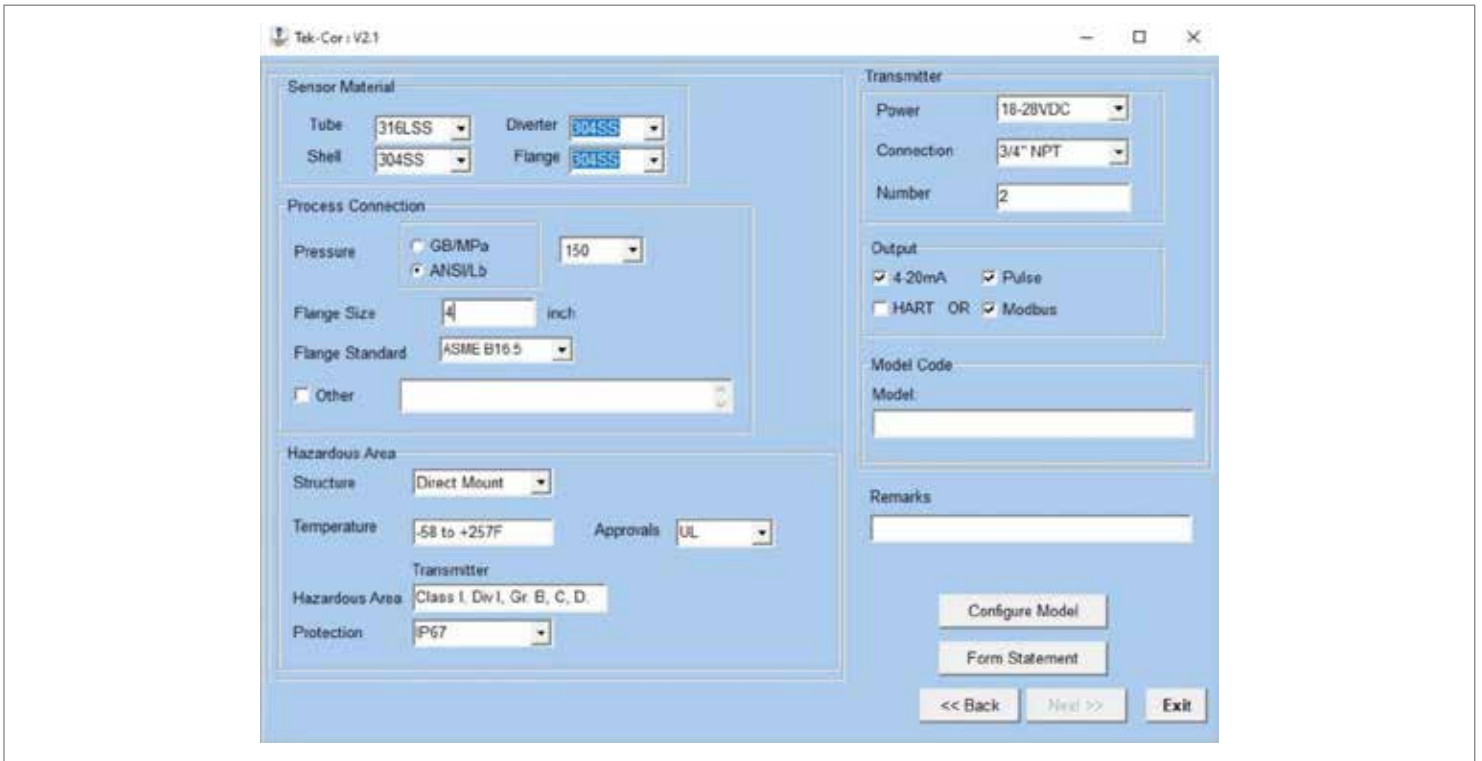
Sensor Type:  U-Type  
 Microbend  
 Triangle / U  
 Superbend

Size [DN]: 80 mm  
 Accuracy: 0.2



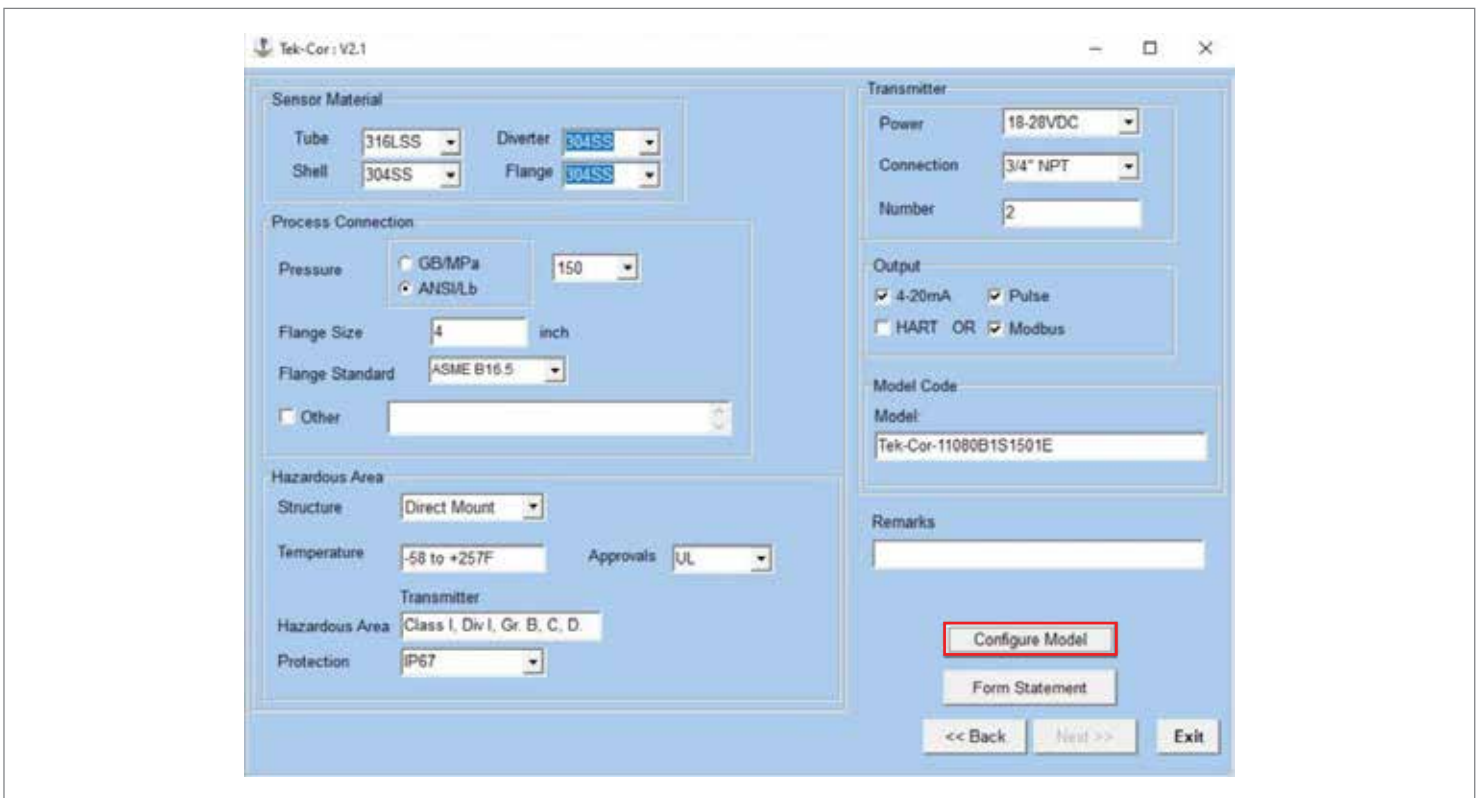
### Step 5 - Fill out electronics and process connection information

(Select pressure as ANSI/Lb and flange size: 4 inch as below)



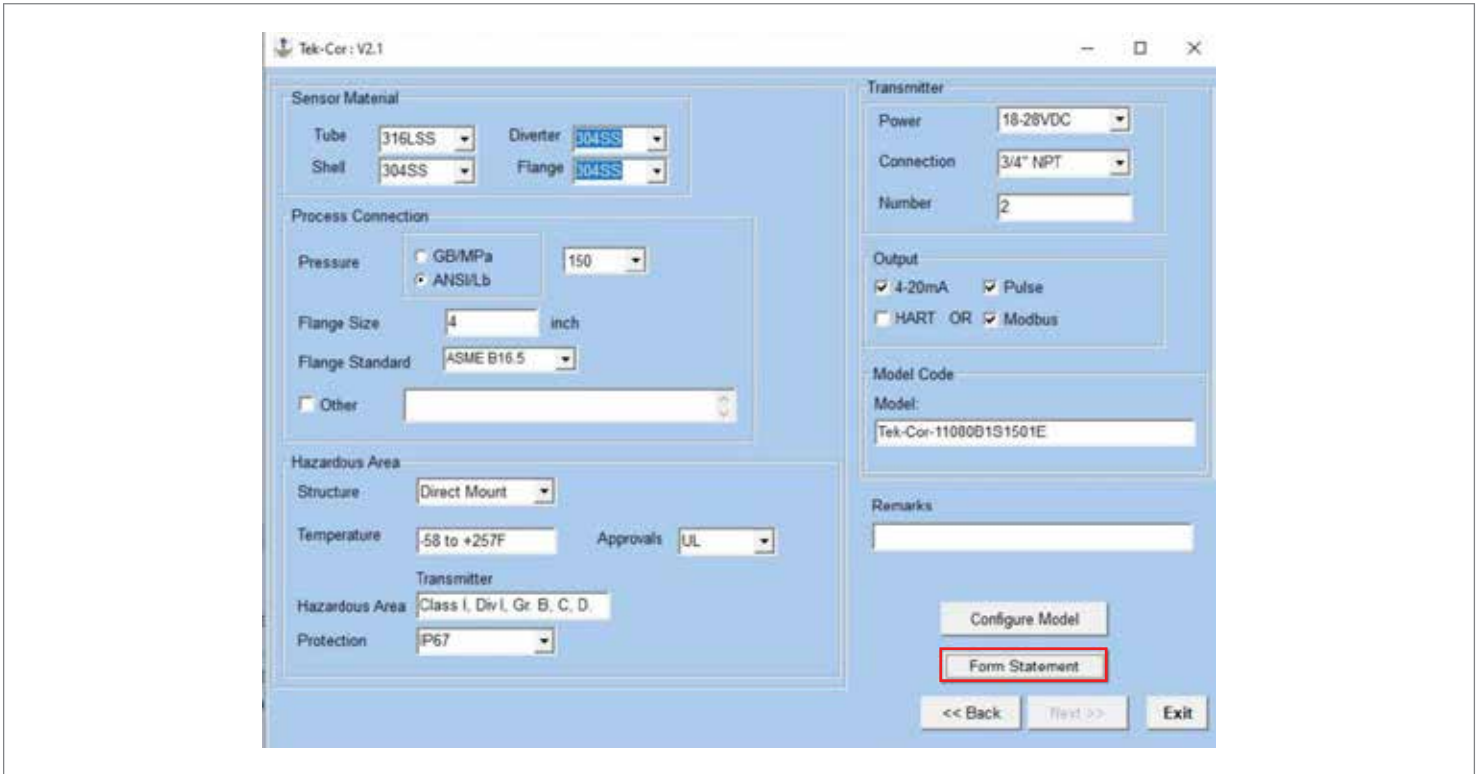
The screenshot shows the Tek-Cor V2.1 software interface. The 'Sensor Material' section has Tube: 316LSS, Diverter: 304SS, Shell: 304SS, and Flange: 304SS. The 'Process Connection' section has Pressure: ANSI/Lb (150), Flange Size: 4 inch, Flange Standard: ASME B16.5, and Other: (empty). The 'Hazardous Area' section has Structure: Direct Mount, Temperature: -58 to +257F, Approvals: UL, Hazardous Area: Class I, Div I, Gr. B, C, D, and Protection: IP67. The 'Transmitter' section has Power: 18-28VDC, Connection: 3/4" NPT, Number: 2, Output: 4-20mA and Pulse (checked), HART OR Modbus (checked), Model Code: (empty), and Model: (empty). The 'Remarks' field is empty. Buttons at the bottom include 'Configure Model', 'Form Statement', '<< Back', 'Next >>', and 'Exit'.

### Step 6 - Click configure model button for model code



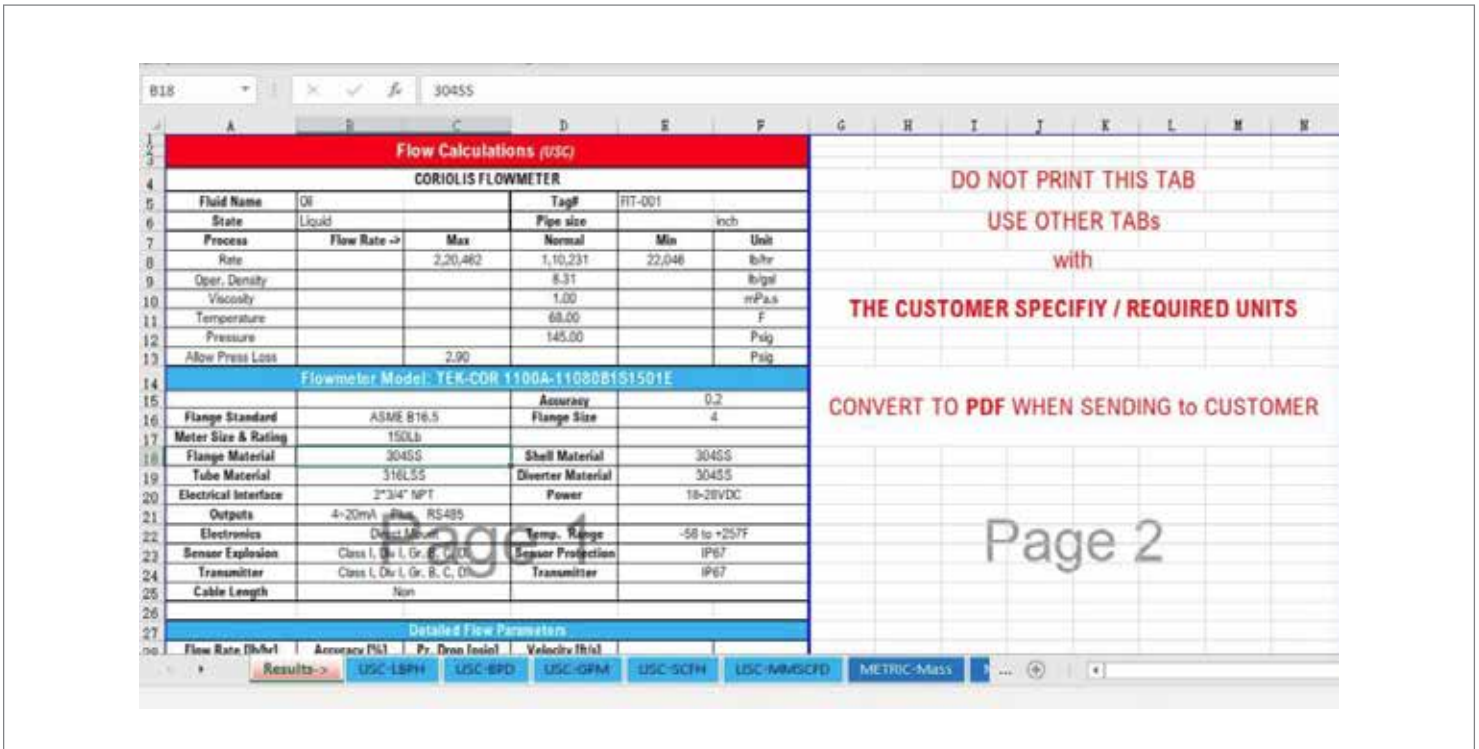
This screenshot is identical to the previous one, but the 'Configure Model' button is highlighted with a red rectangular box. The 'Model Code' field now contains the text 'Tek-Cor-11080B1S1501E'.

Step 7 - Press form statement button



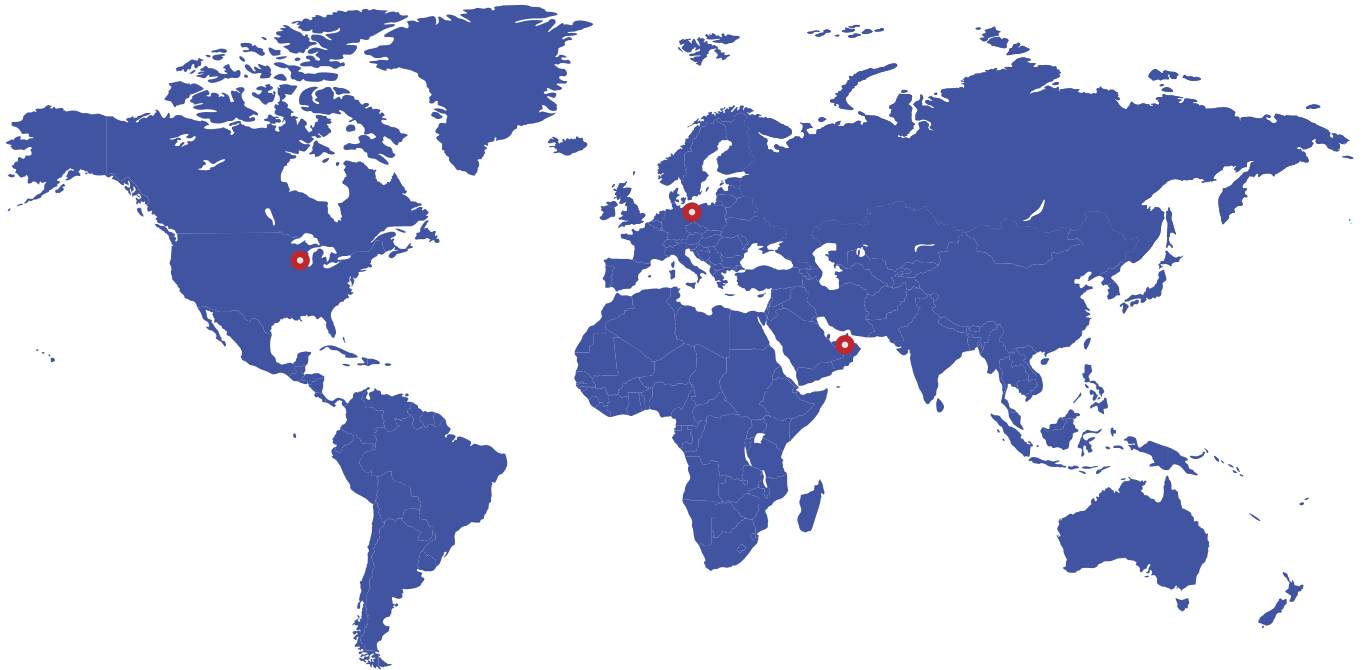
Step 8 – Wait for excel results to open & select the unit tab that matches your needs (do not use results tab) to convert to PDF.

FAQ: Selected tab should be on results and not sub-tabs for excel





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## **Tek-Cor 1100A**

Sizing Program/Software Walk Through