

TF test report 3.11.0

Test time: 03.07.2023

Model name: adm_3_8 (Threshold 0.9. Value limits 1/0 applied. Normalization applied.)

Model type: MLP

Model description: 17x96x96x96x4 MLP to detect anomalies on 4 panels based on 4 x 10 temperature msmnts + 4 derivatives + 1 time. Tested on previously unseen data. Trained to detect sensor spikes, const regions, temp shifts and bumps. Removed prediction outputs.

Model data size: NA

Test results:

Accuracy on NO anomalies (0): 0.9984

Accuracy on ANOMALIES (1): 0.9224

recall: 0.9224

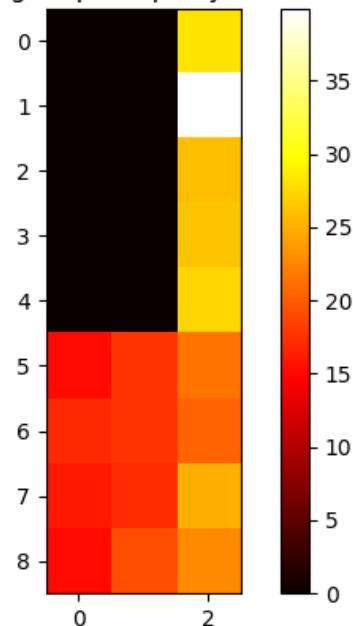
precision: 0.9923

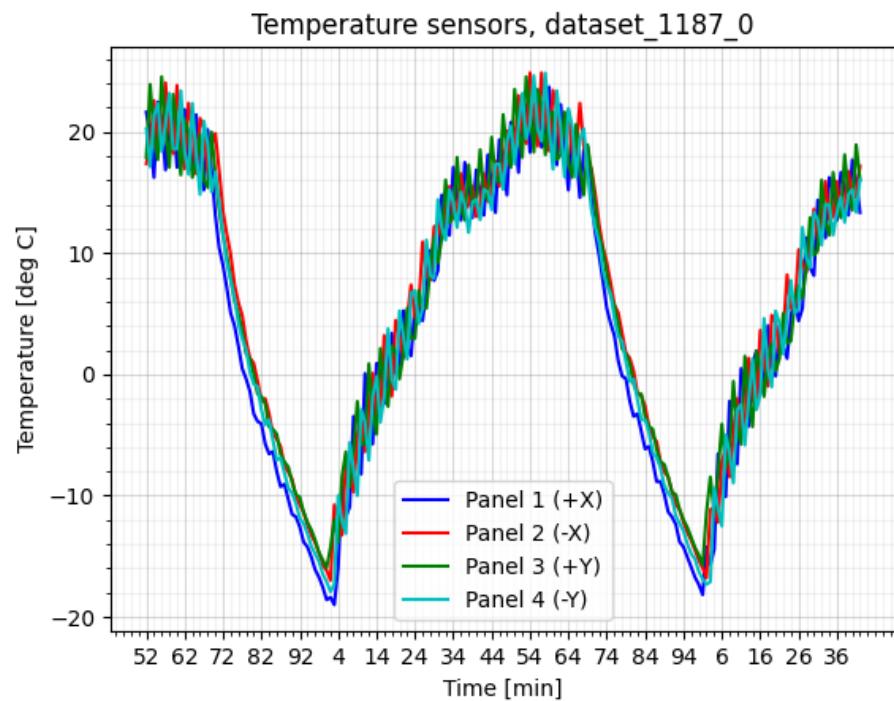
F1 score: 0.956

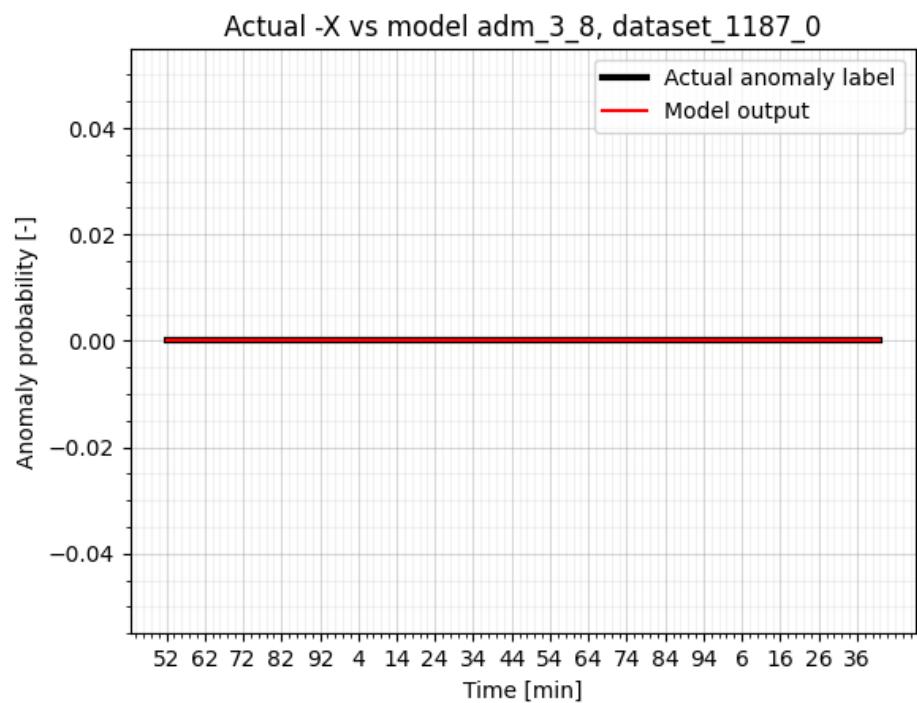
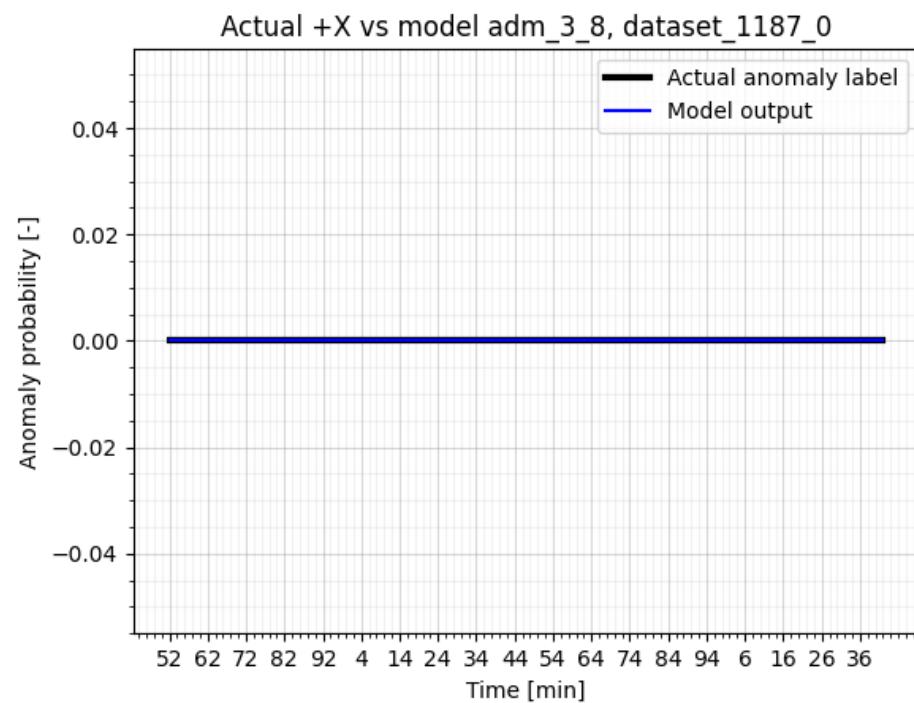
False alarm rate: 0.0016



Sum of abs. weights per inp. layer neuron, adm_3_8

Figure 0: a) model structure (made with <http://alexlenail.me/NN-SVG/index.html>) b) Input data weight comparison





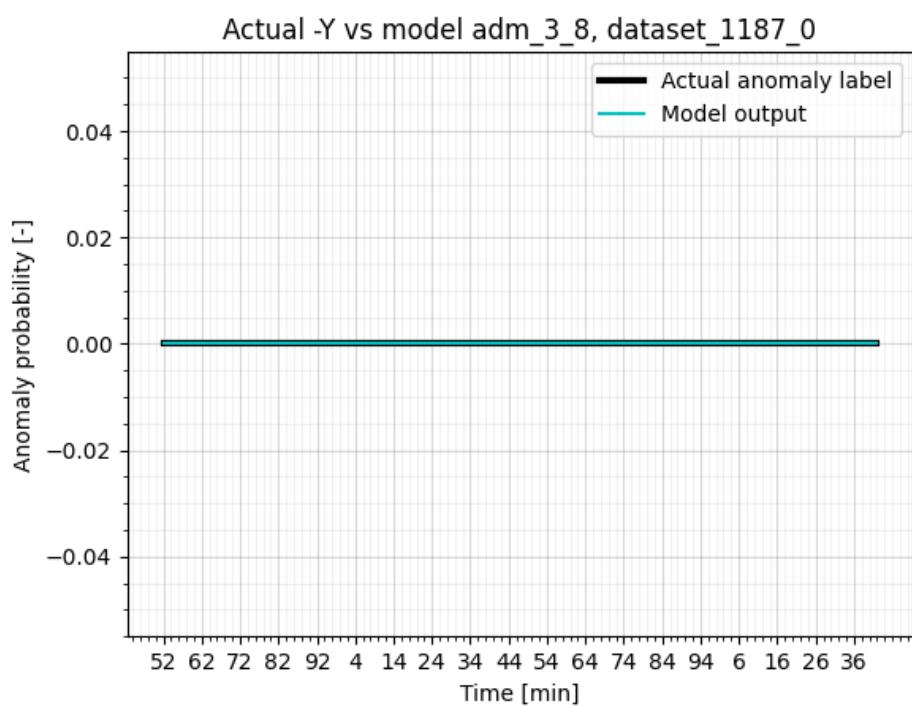
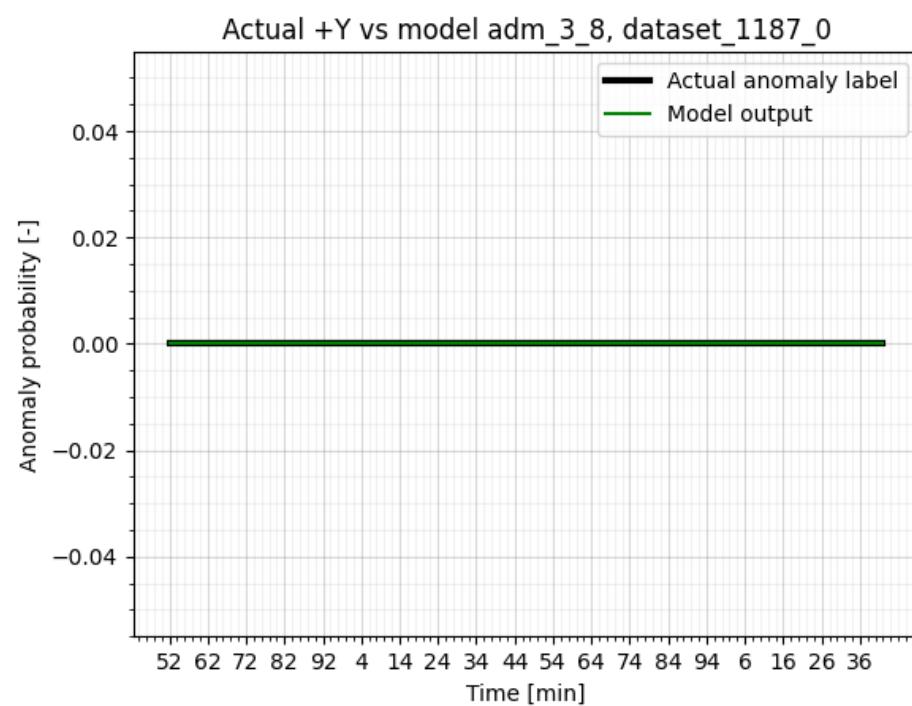
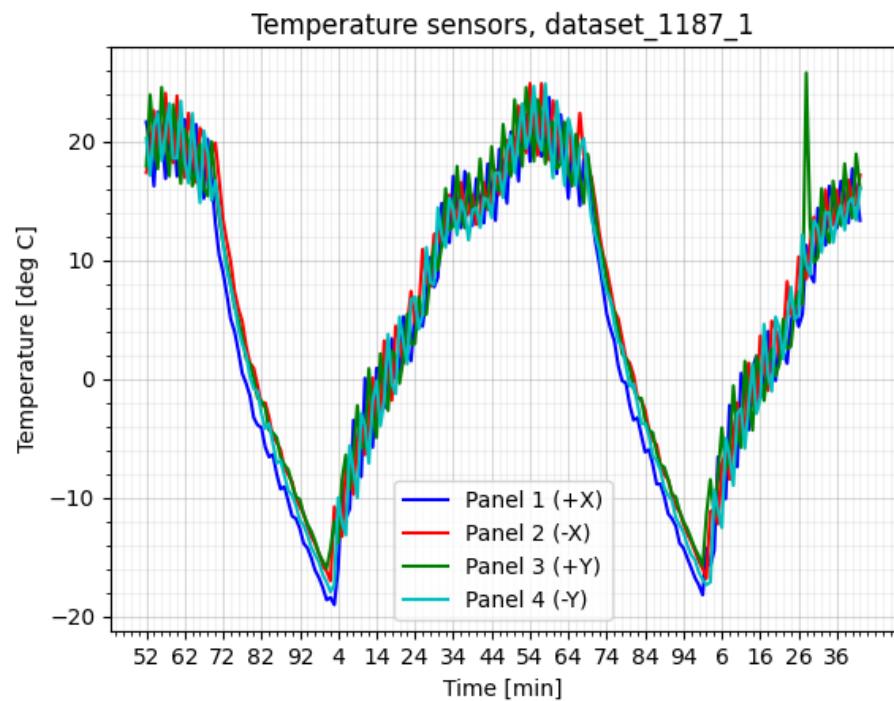
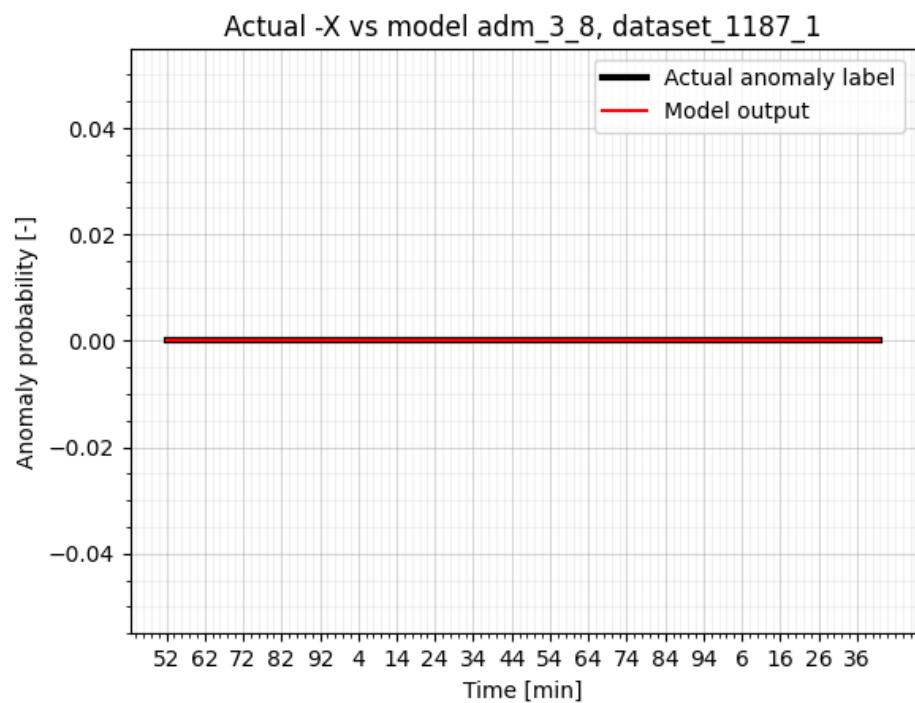
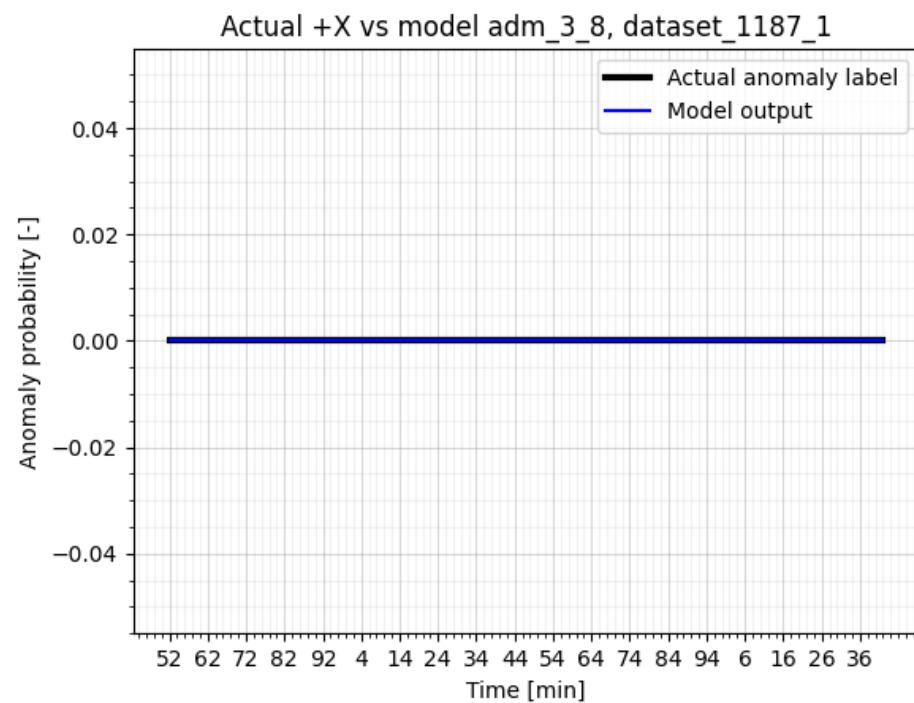


Figure 1: model inferences on dataset_1187_0_mod1.png





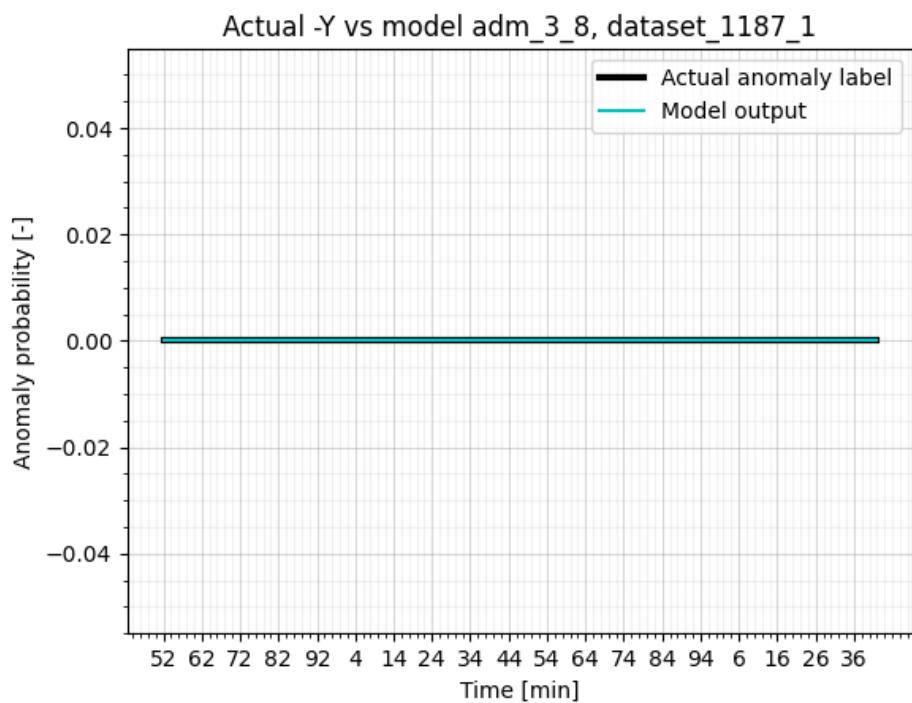
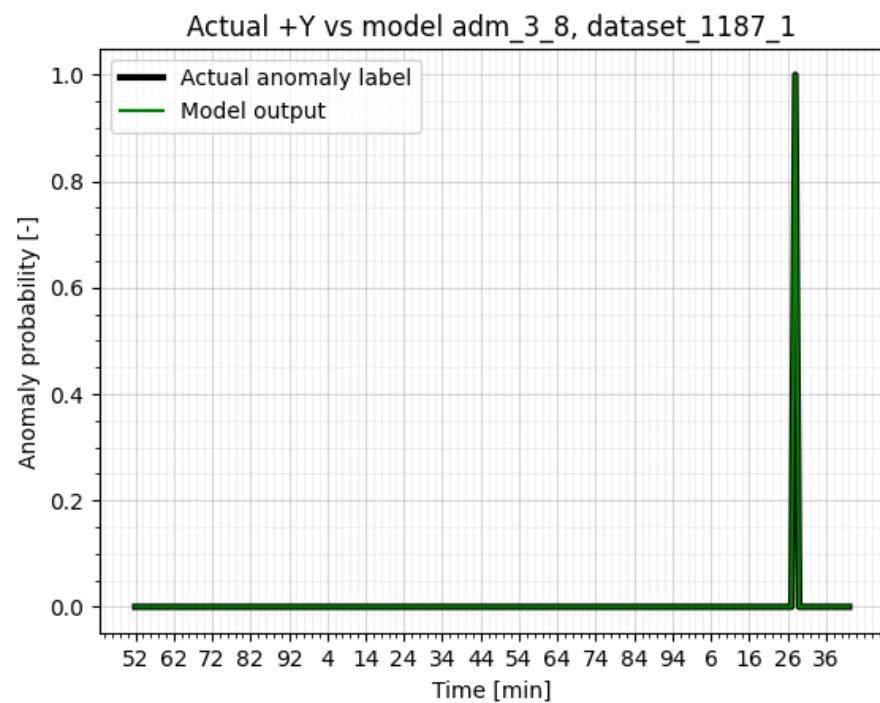
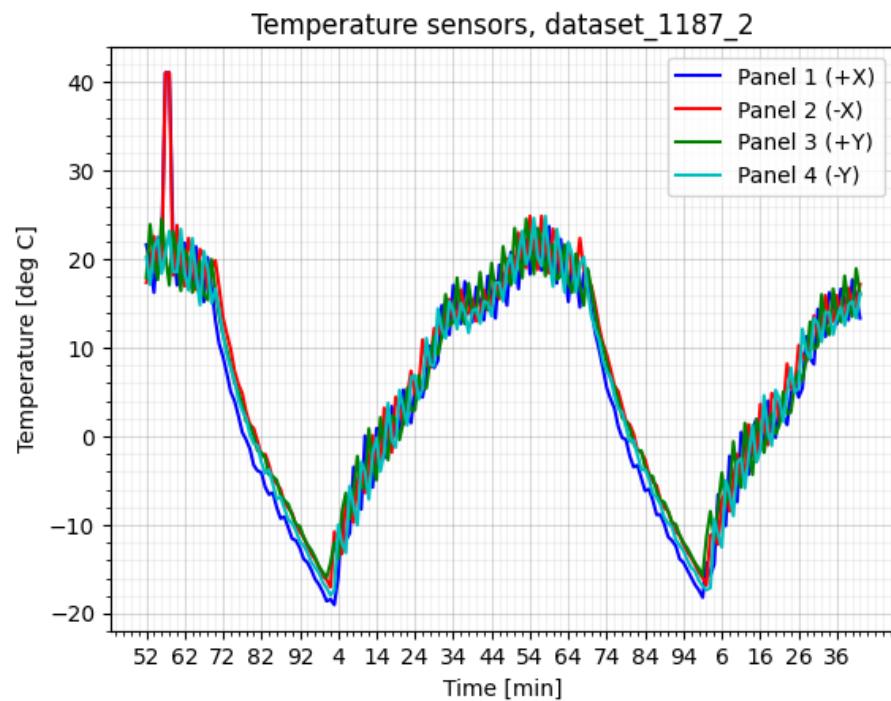
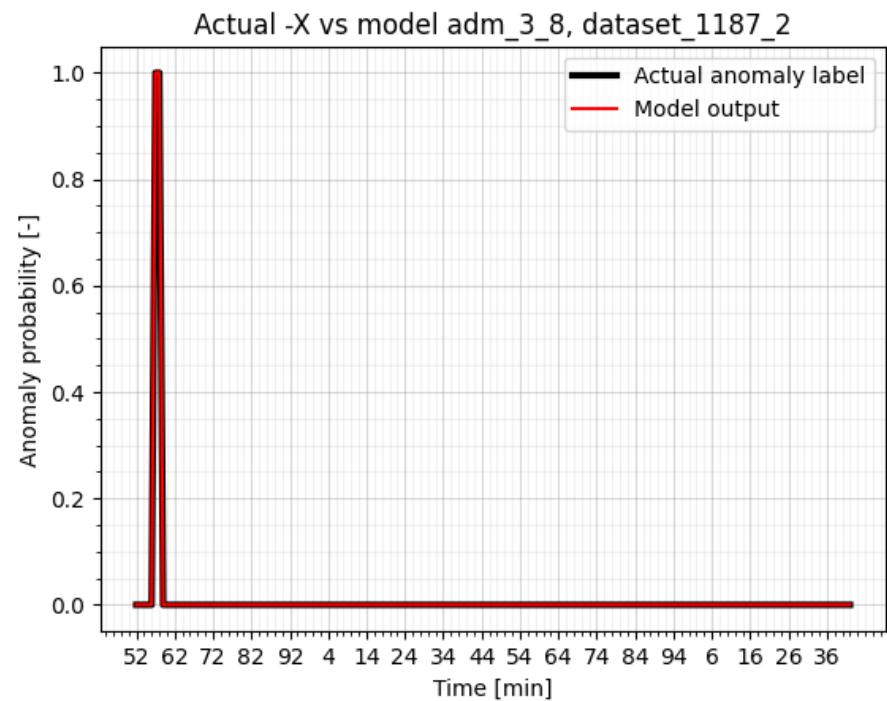
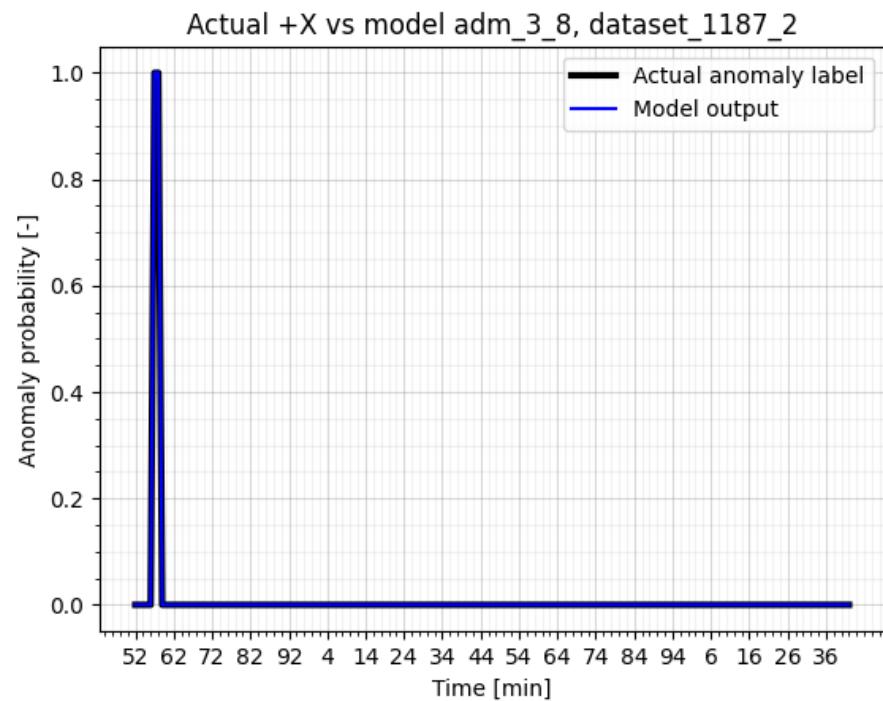


Figure 2: model inferences on dataset_1187_1_mod1.png





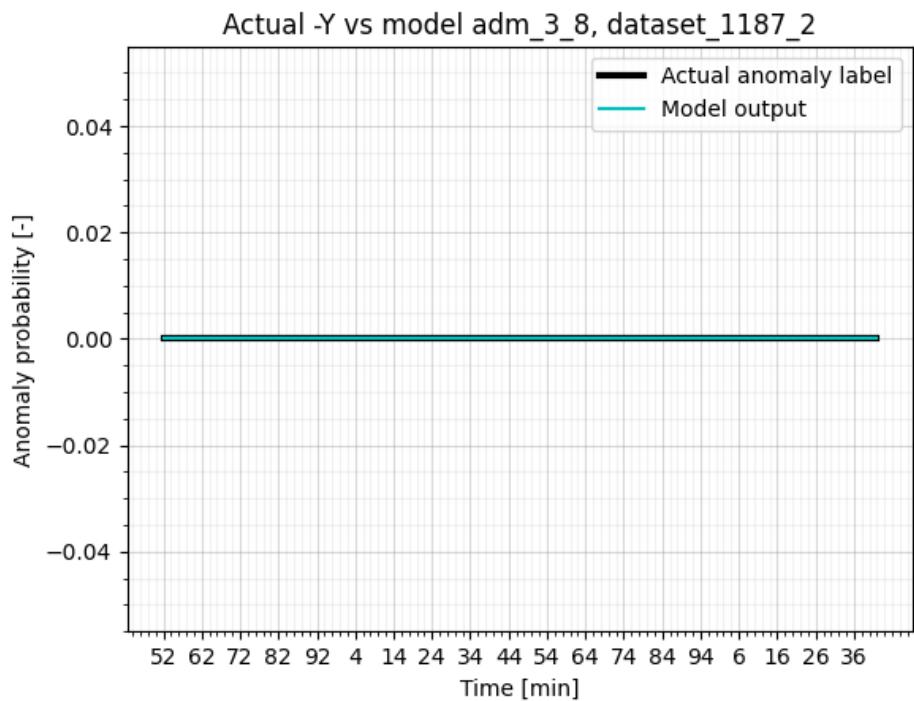
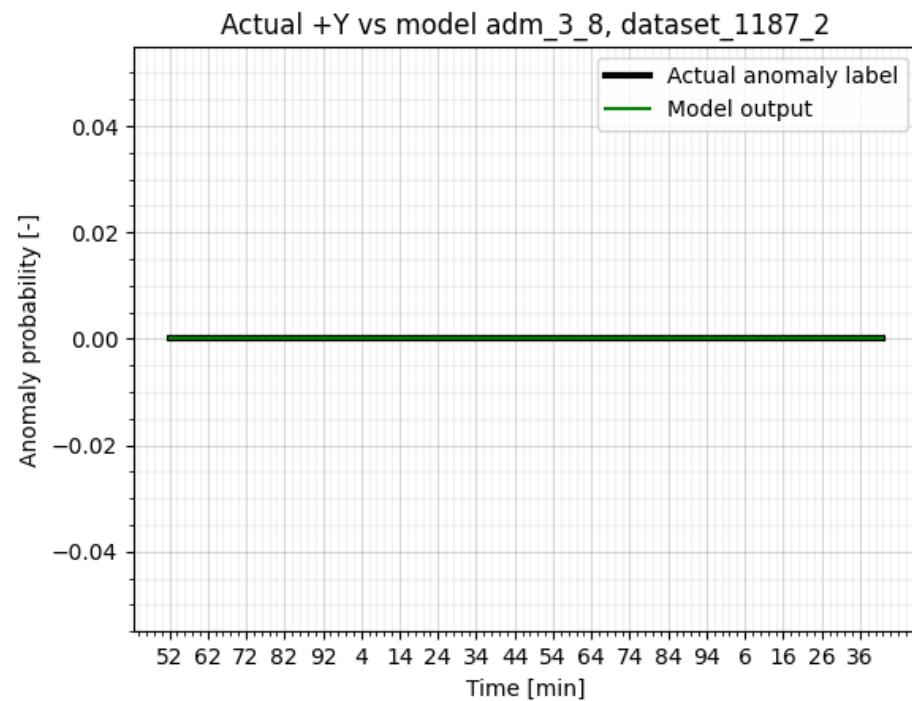
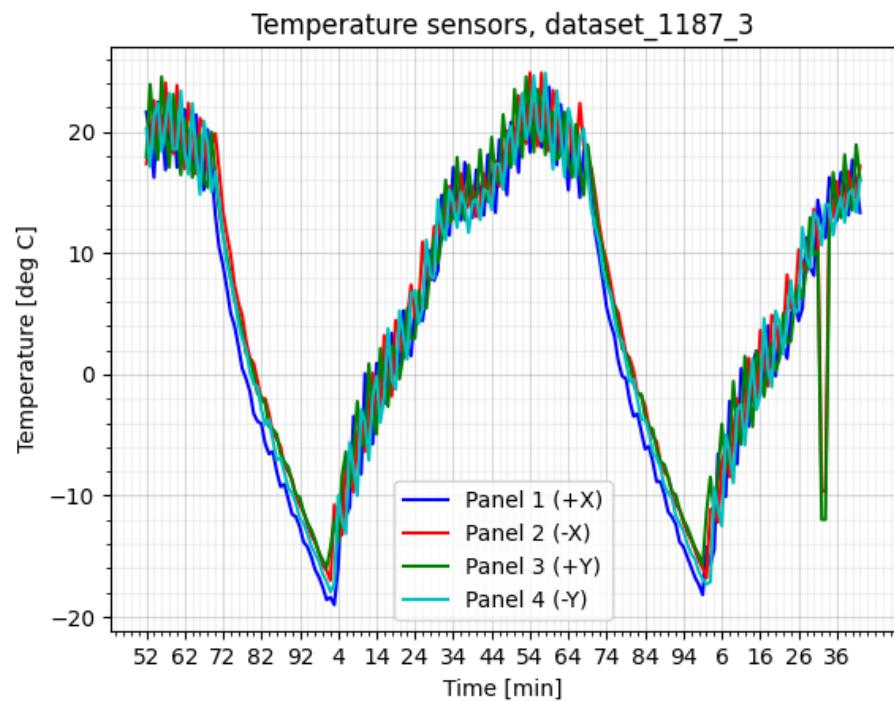
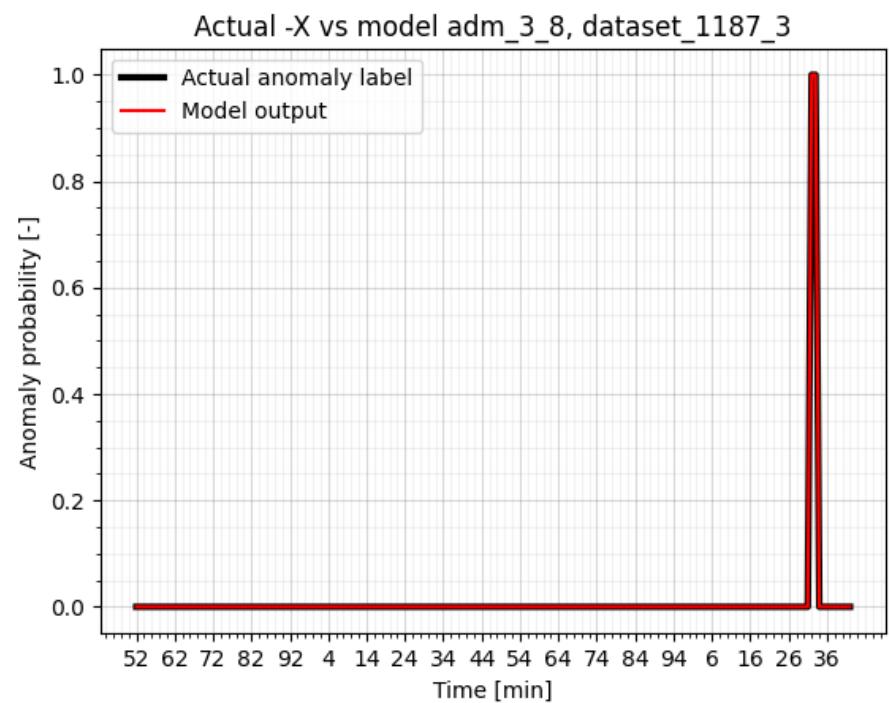
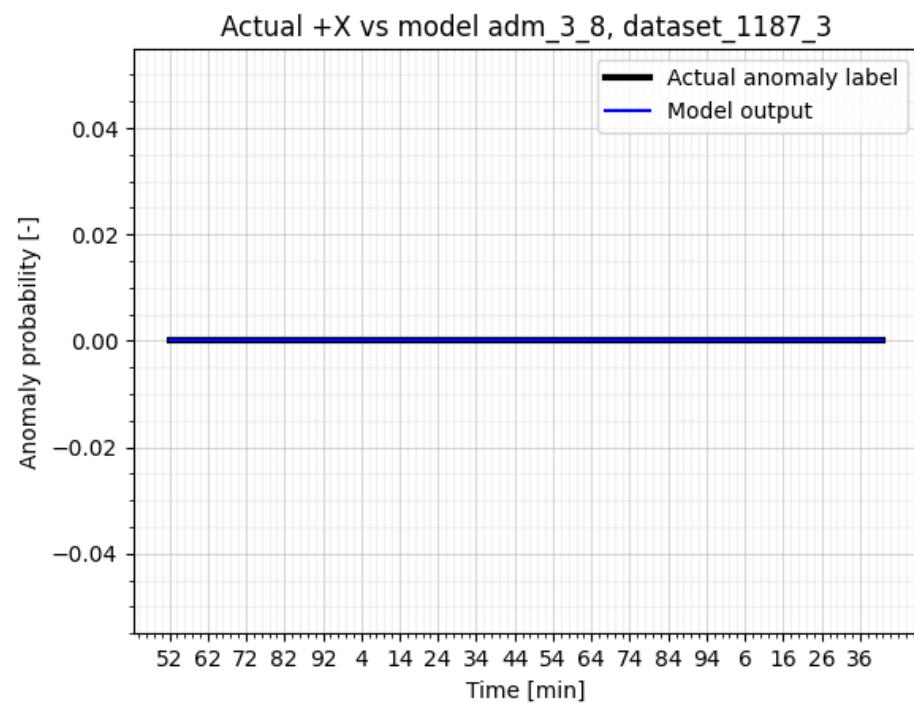


Figure 3: model inferences on dataset_1187_2_mod1.png





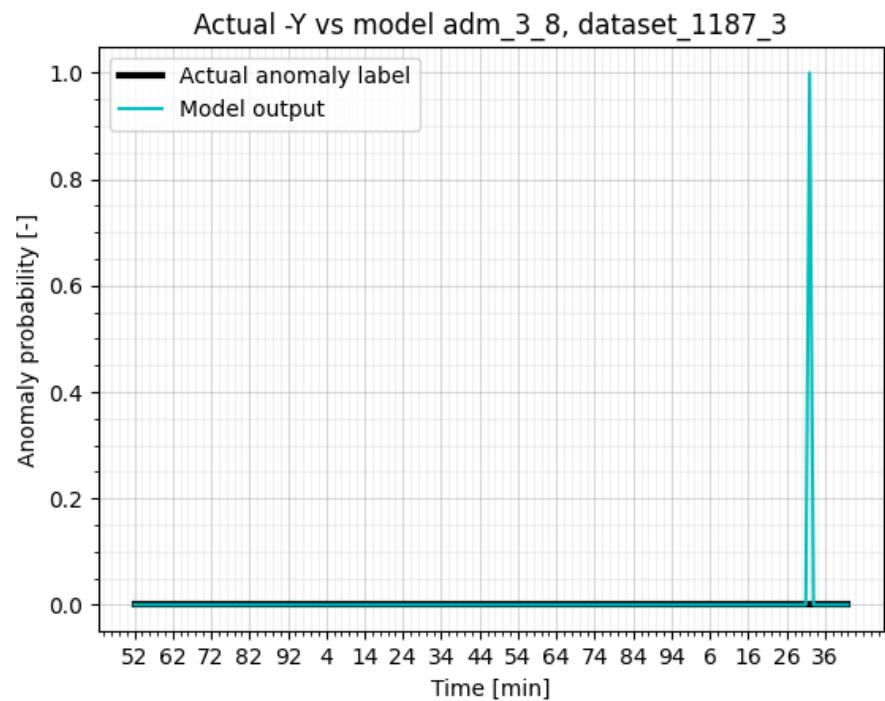
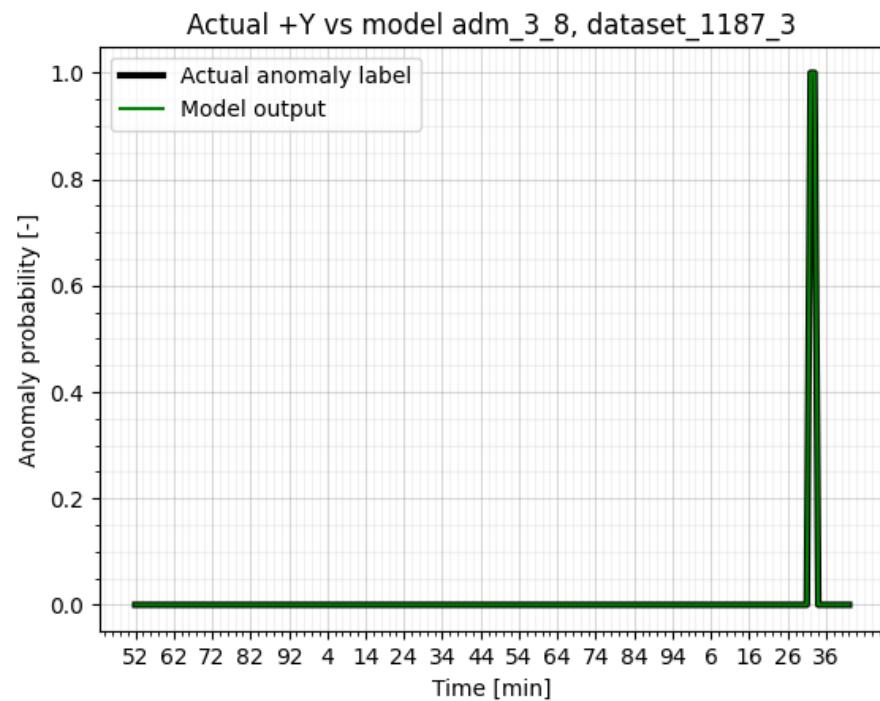
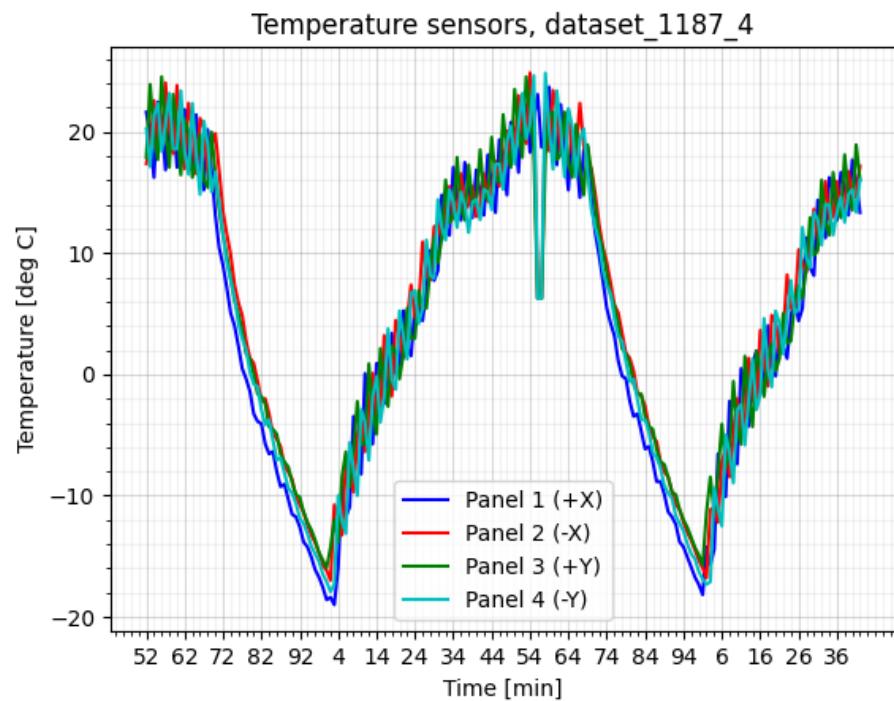
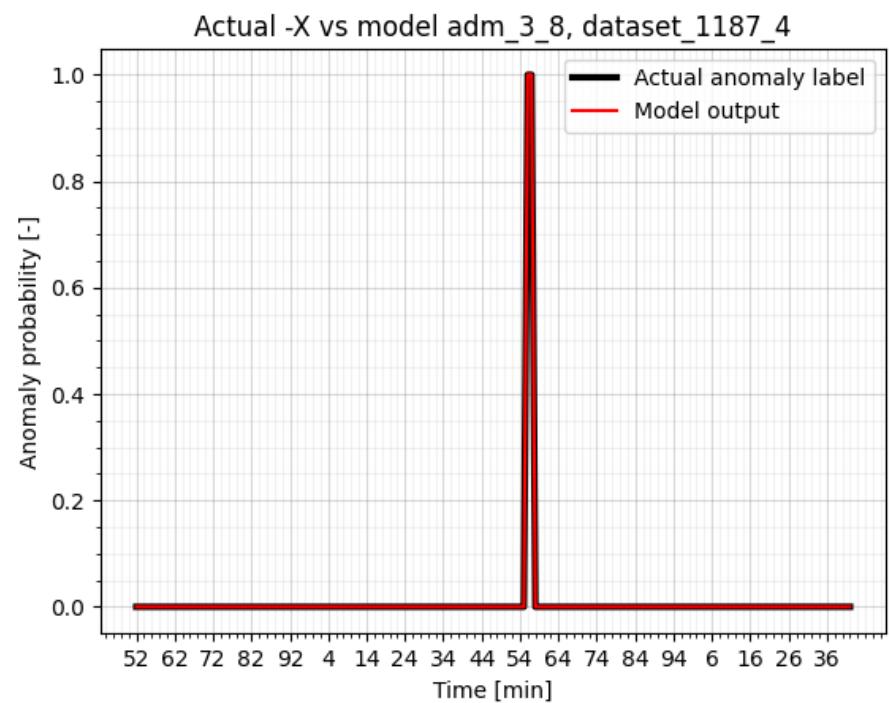
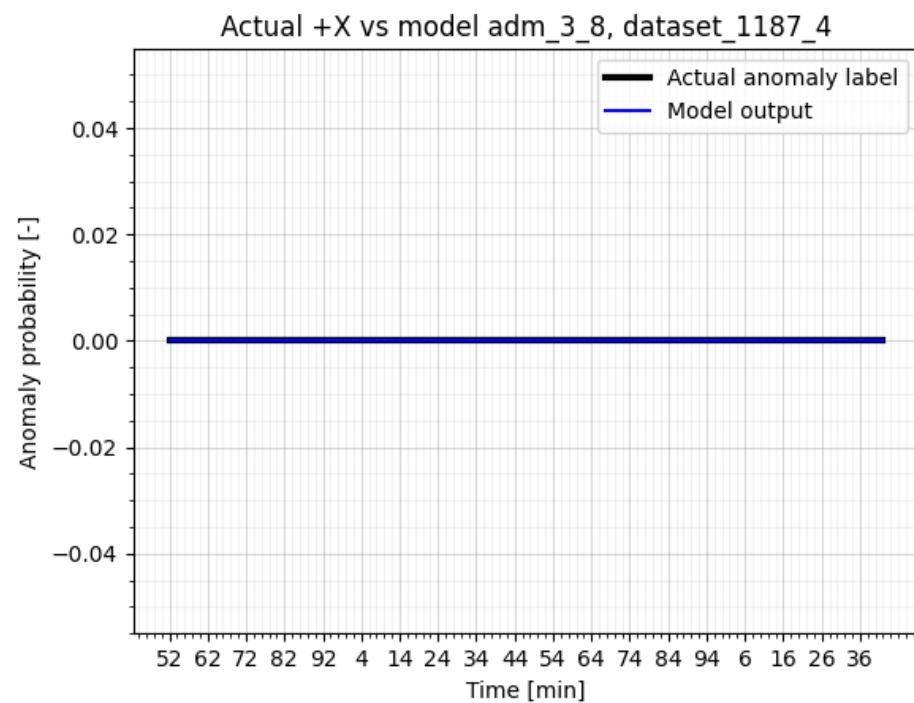


Figure 4: model inferences on dataset_1187_3_mod1.png





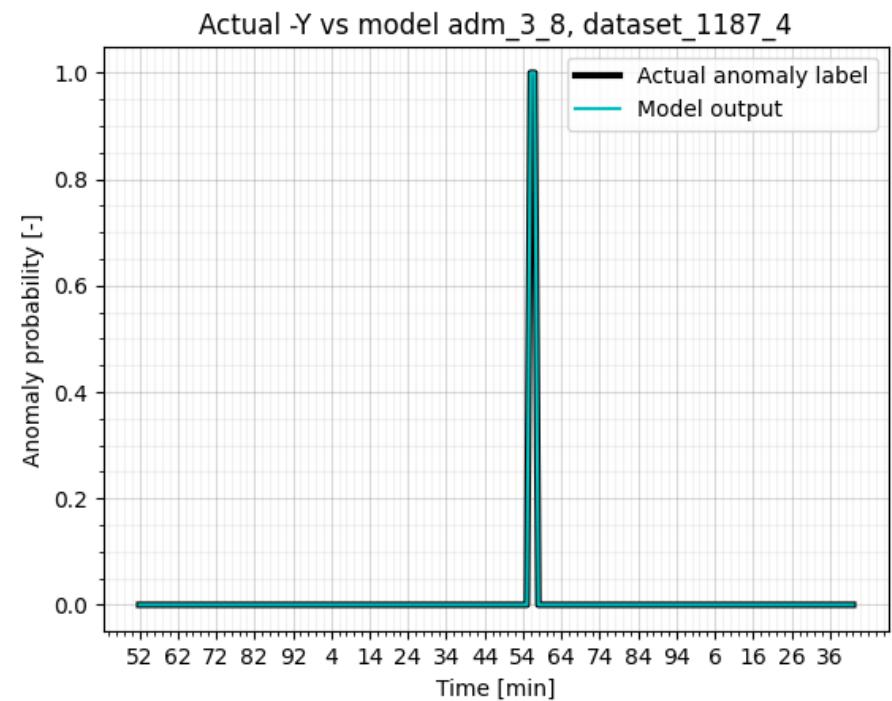
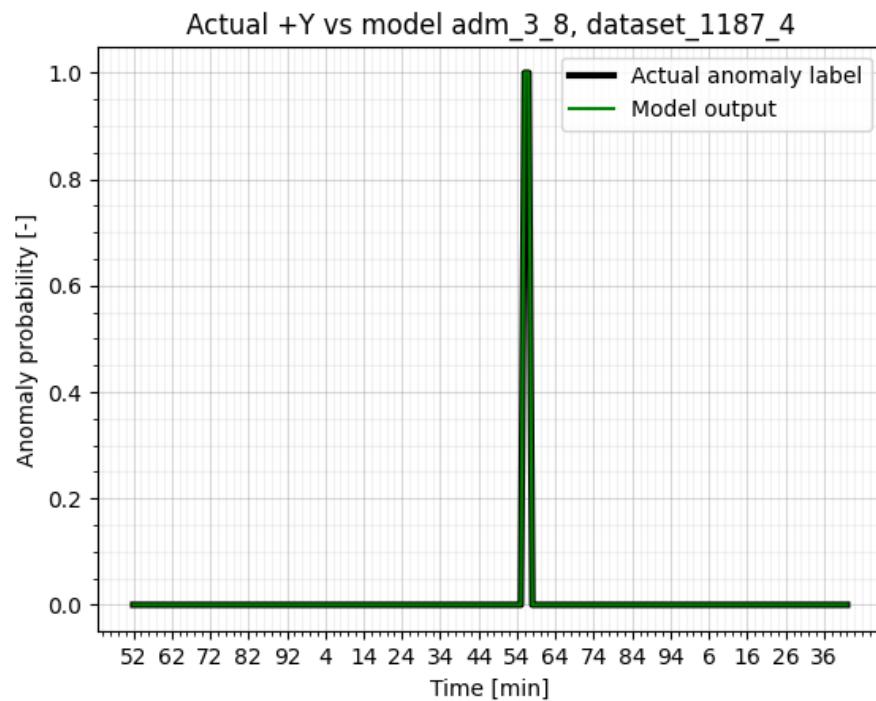
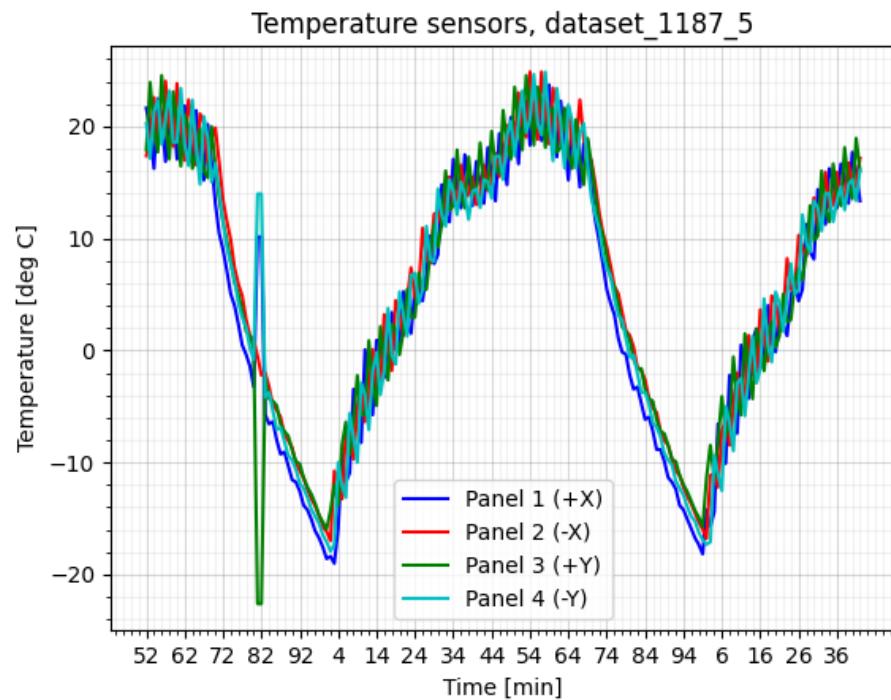
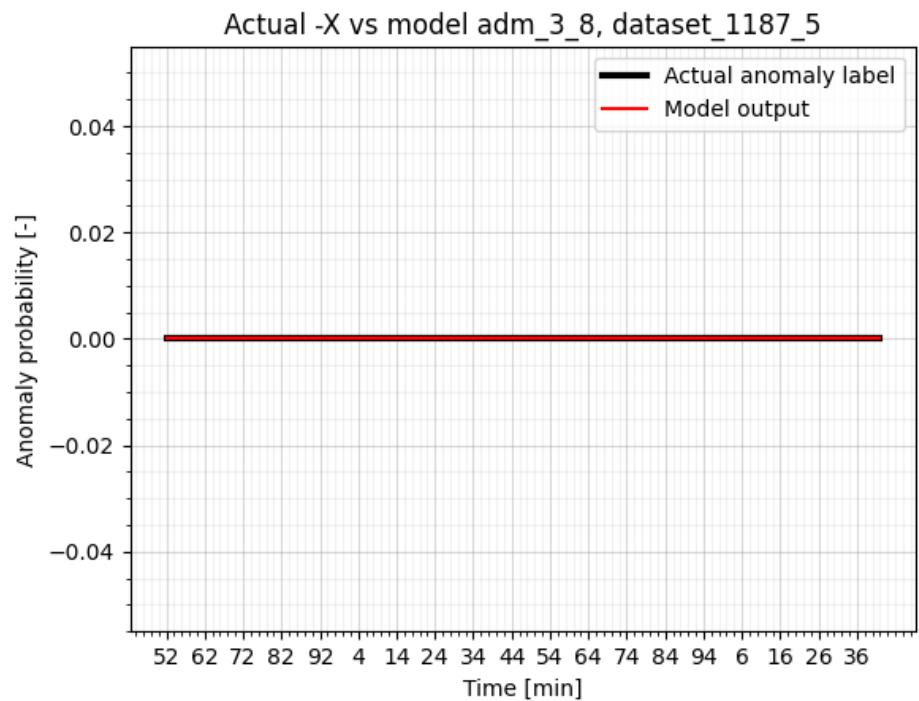
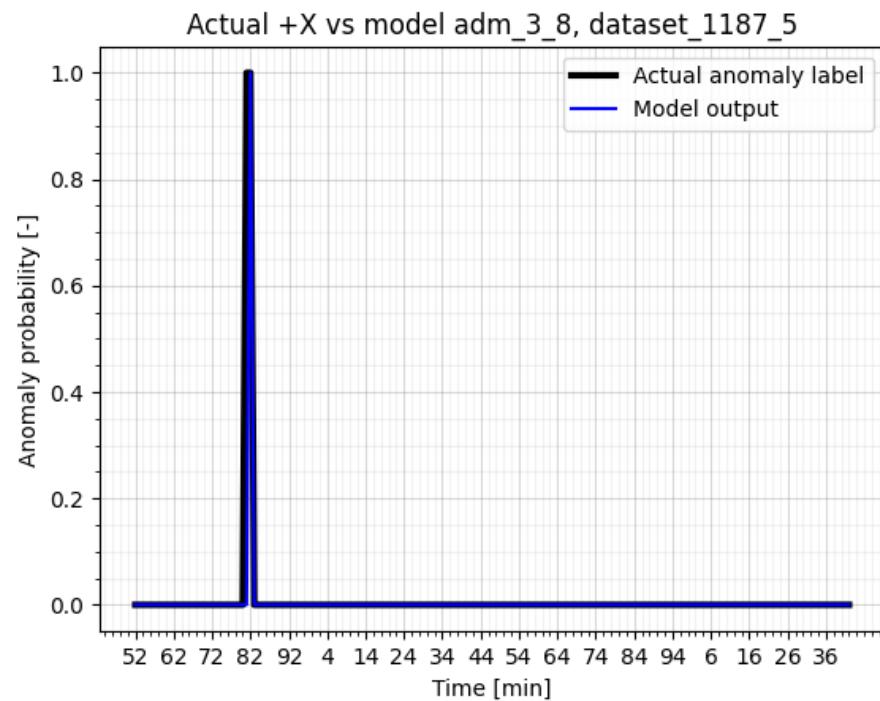


Figure 5: model inferences on dataset_1187_4_mod1.png





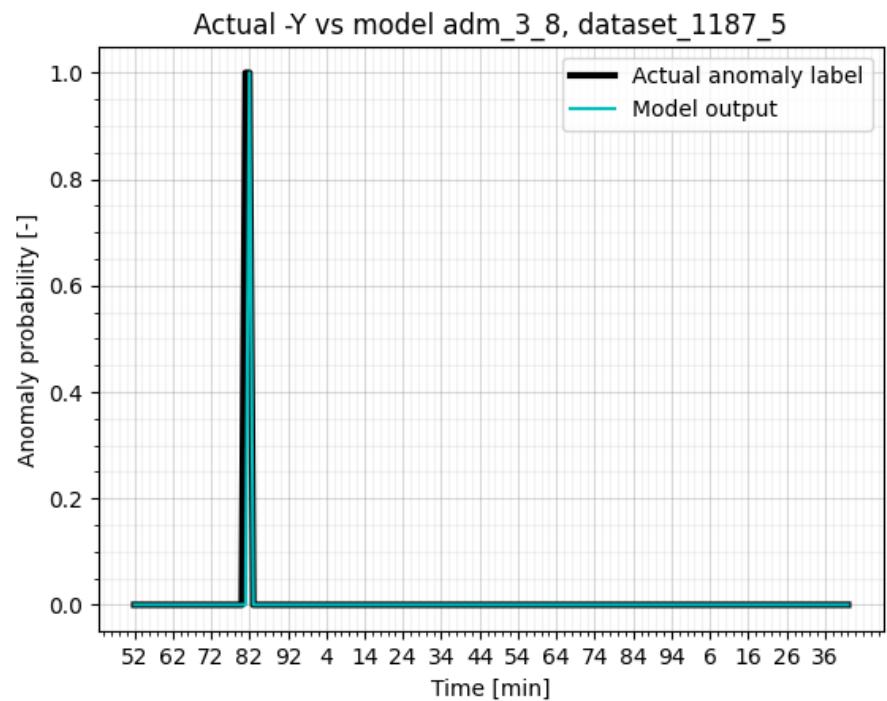
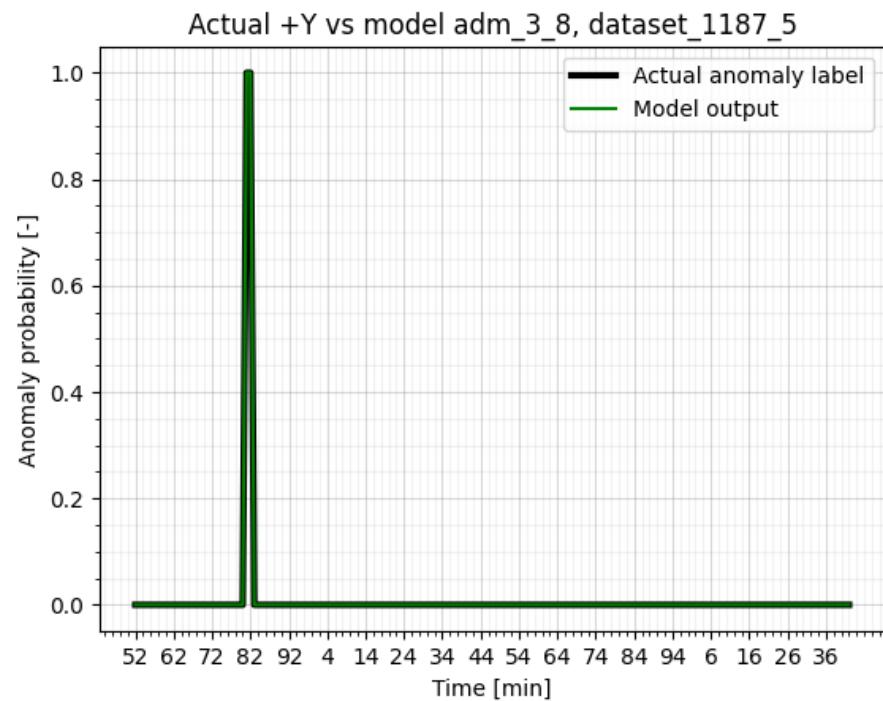
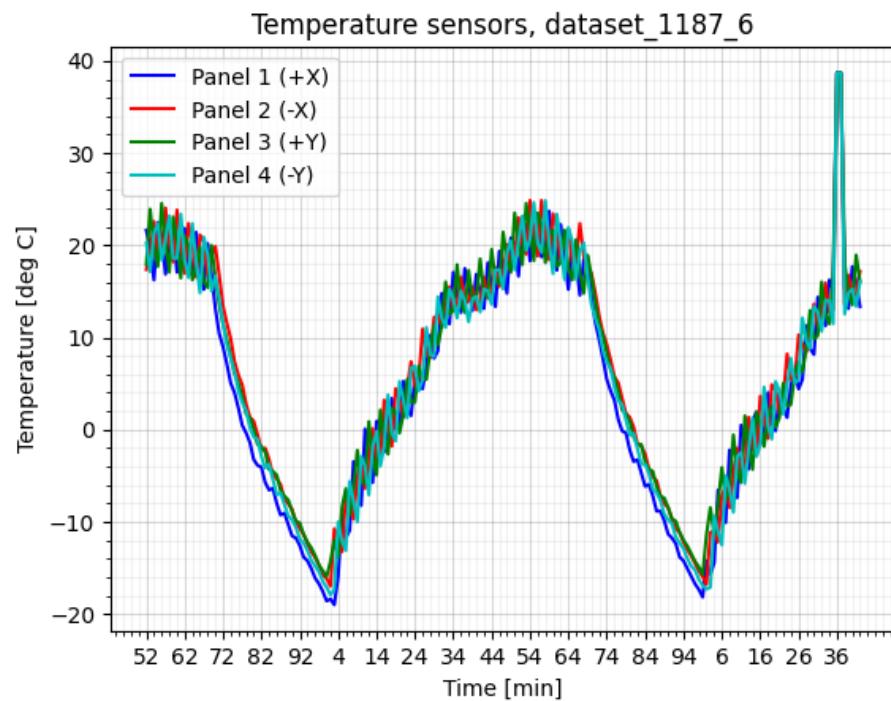
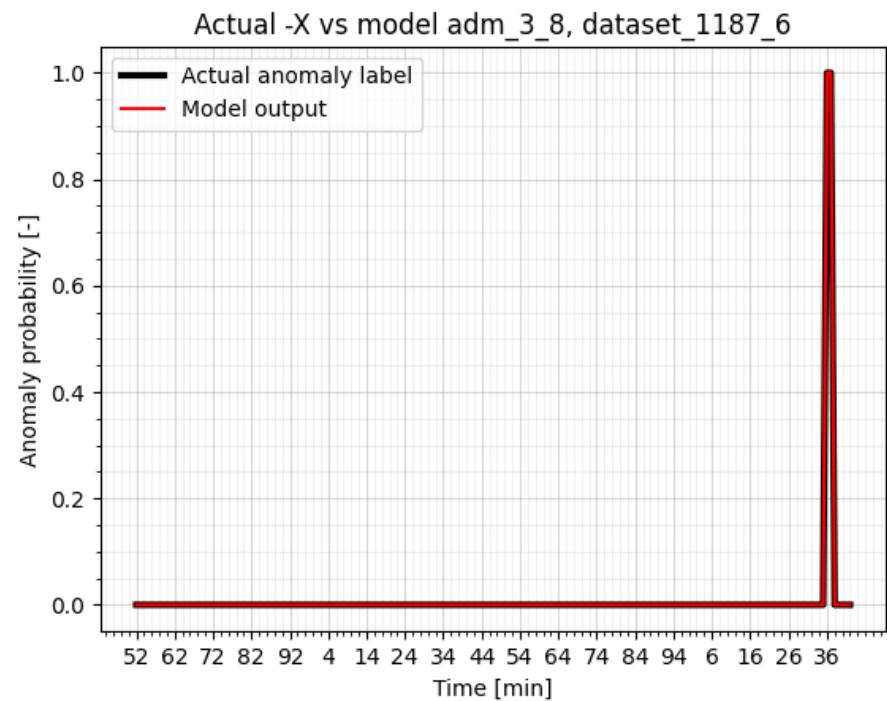
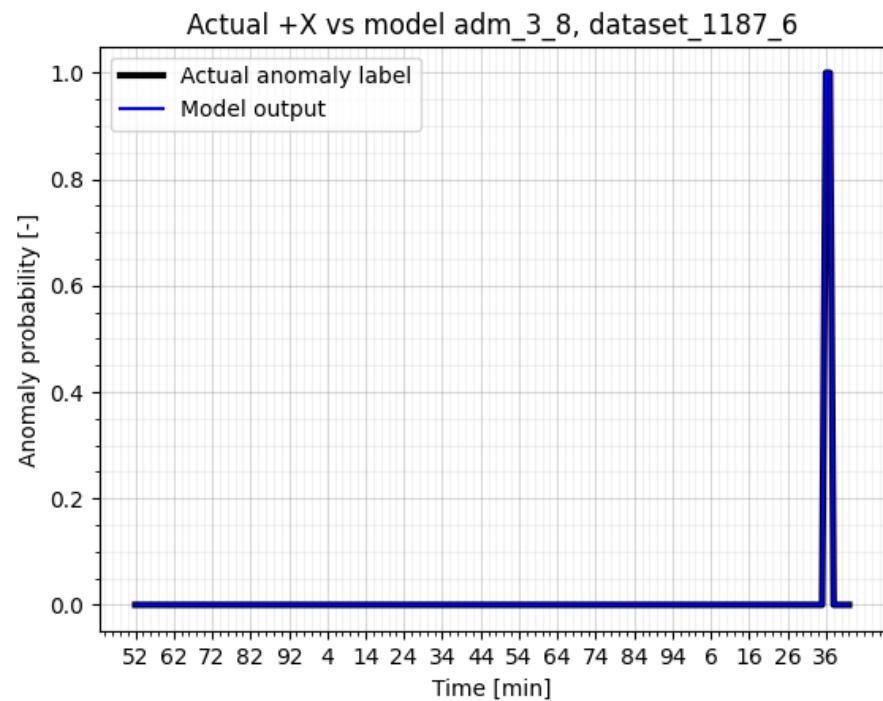


Figure 6: model inferences on dataset_1187_5_mod1.png





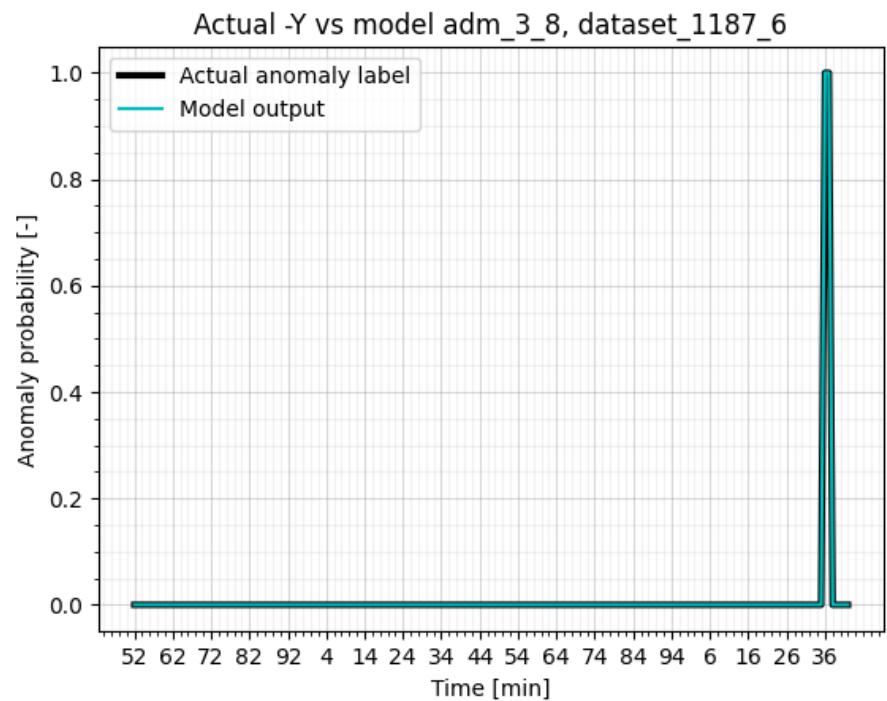
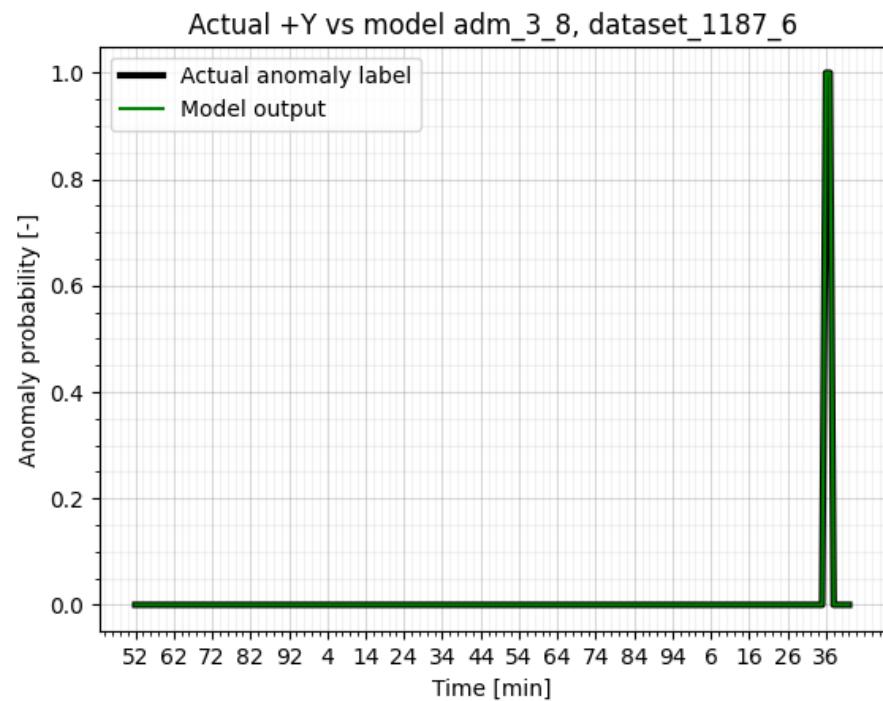
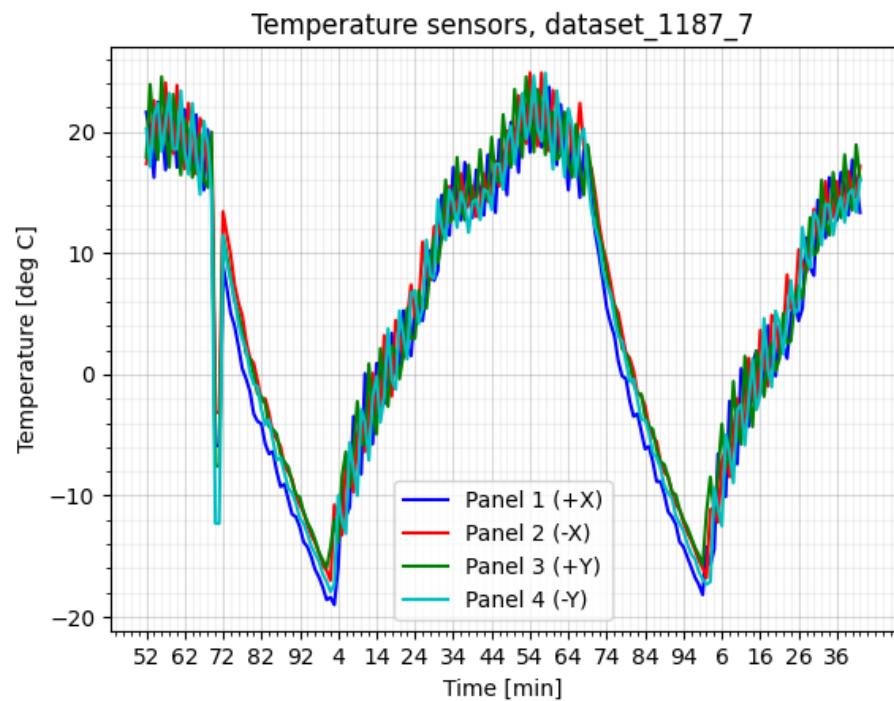
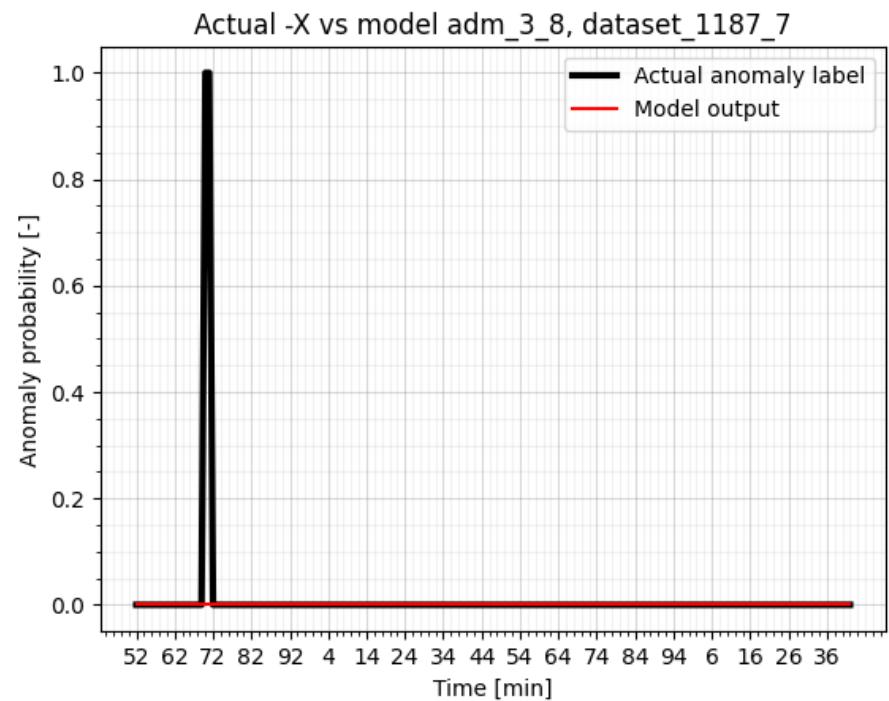
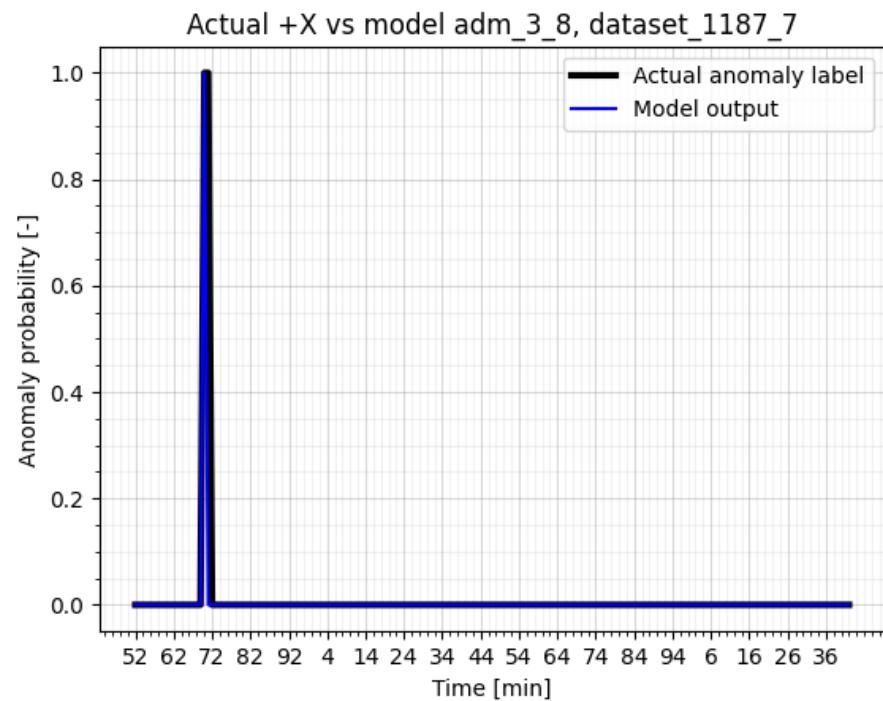


Figure 7: model inferences on dataset_1187_6_mod1.png





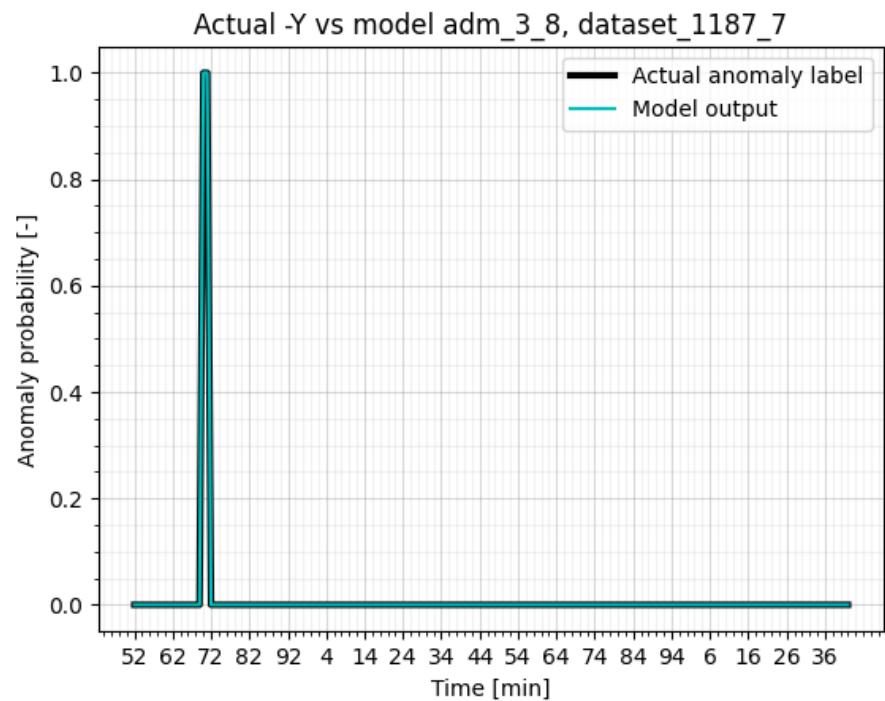
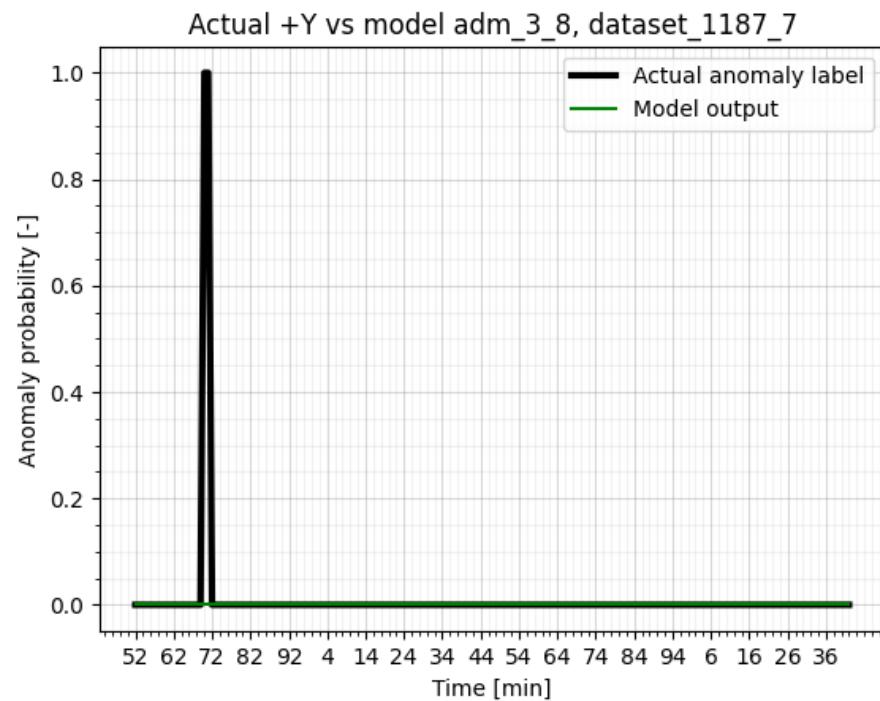
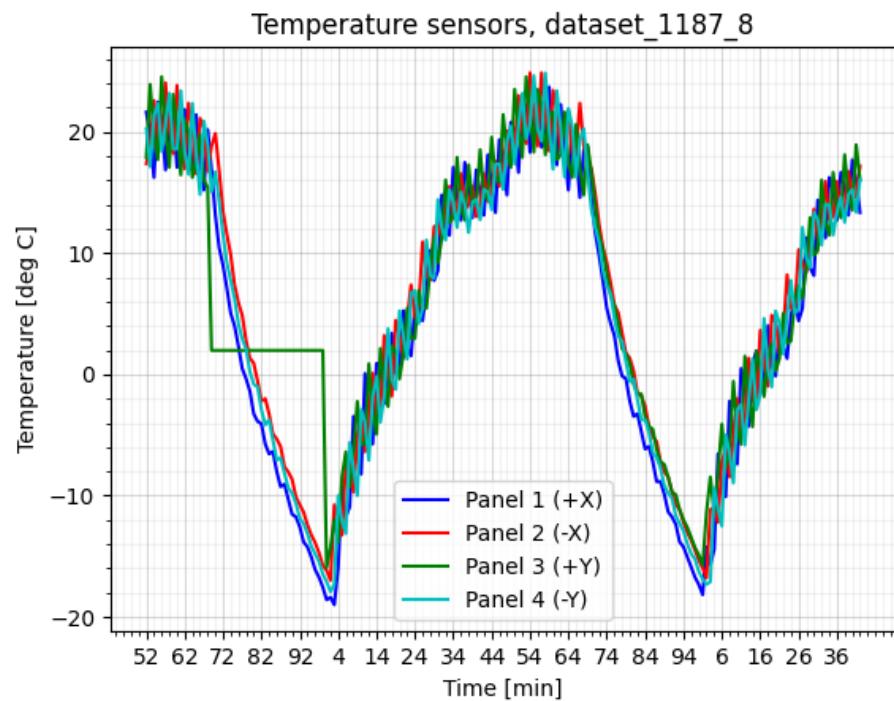
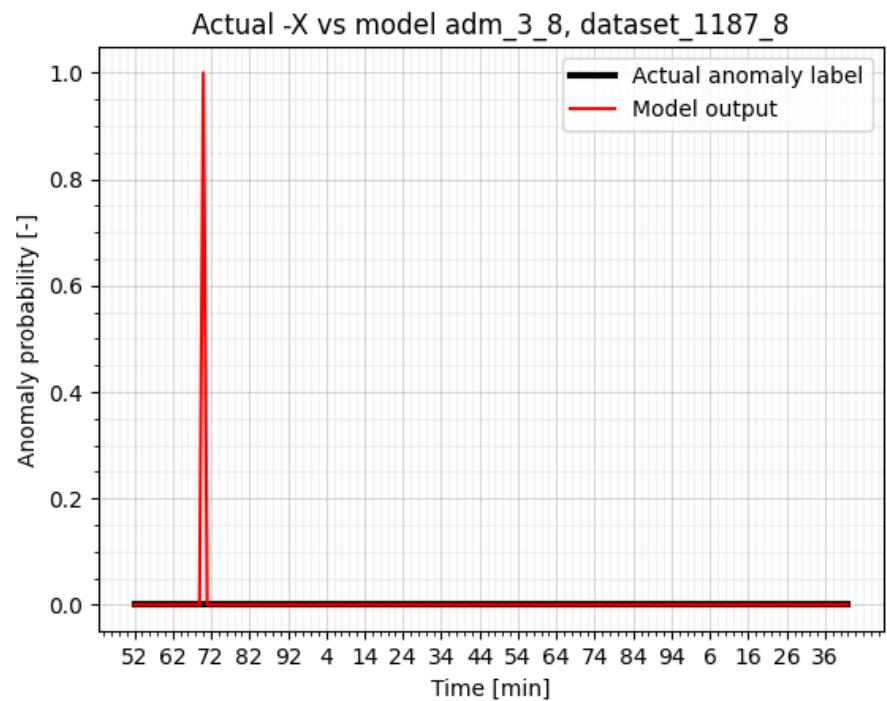
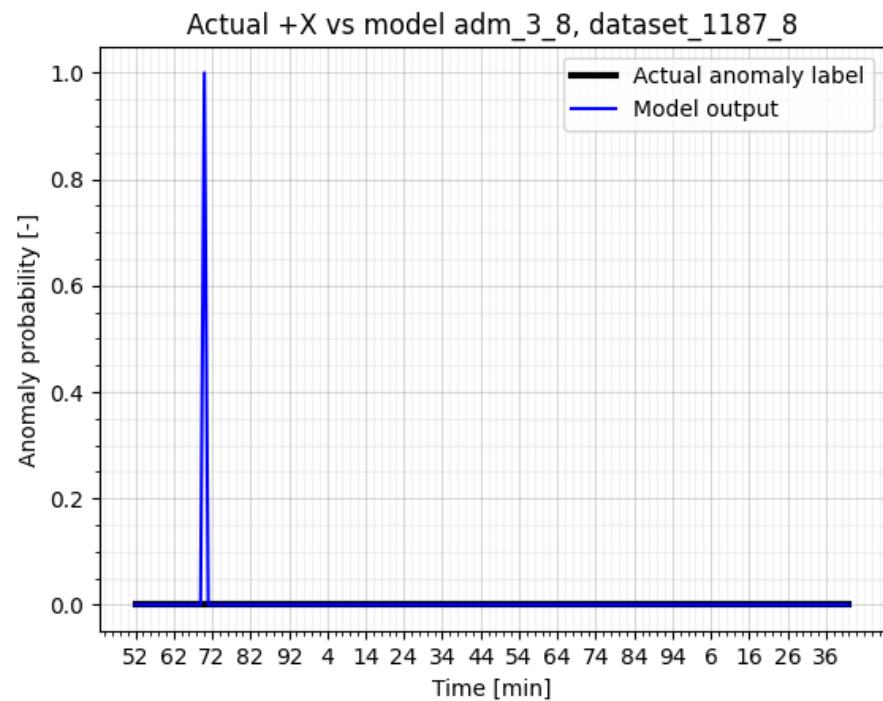


Figure 8: model inferences on dataset_1187_7_mod1.png





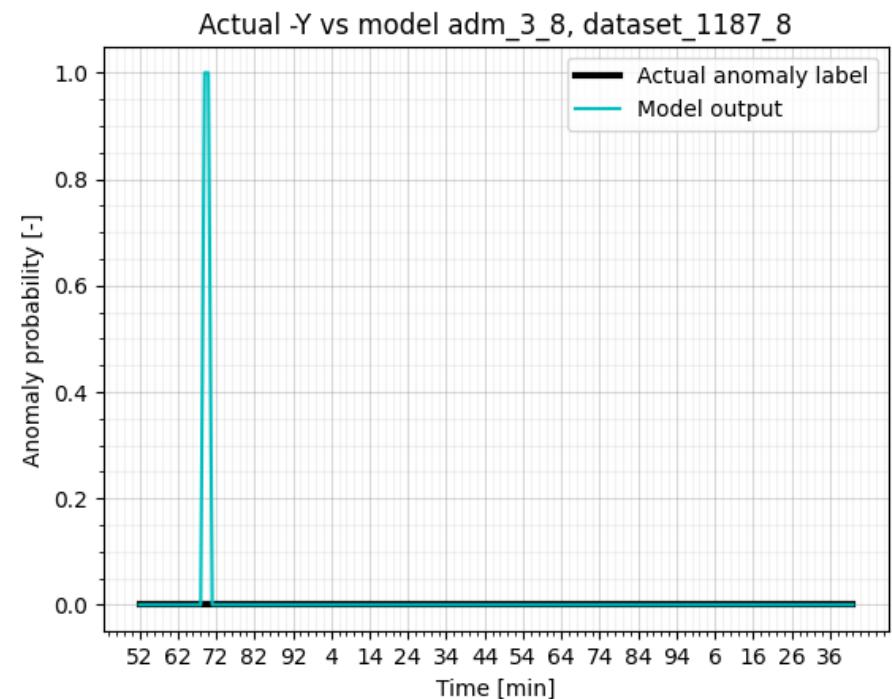
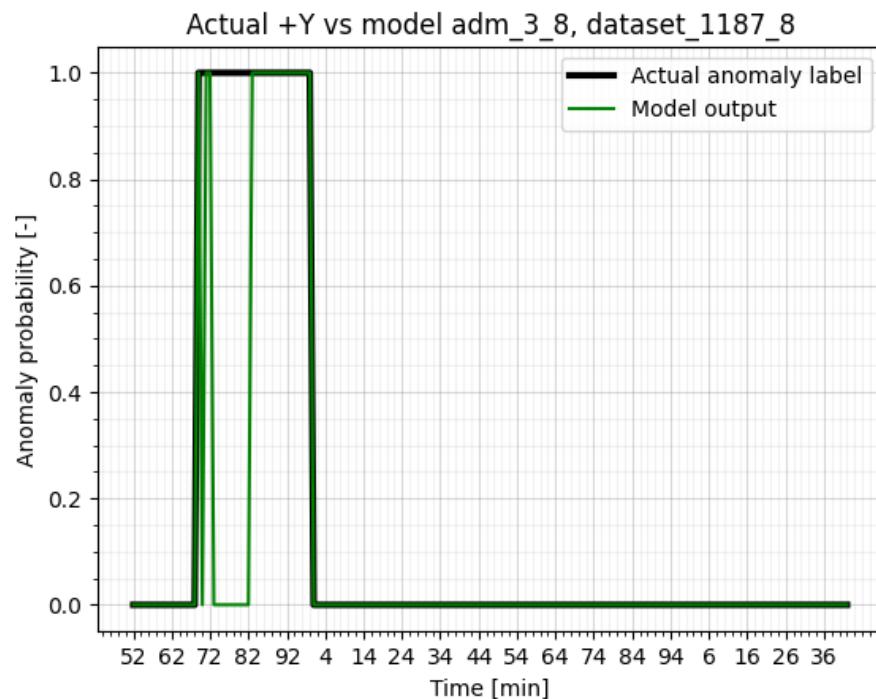
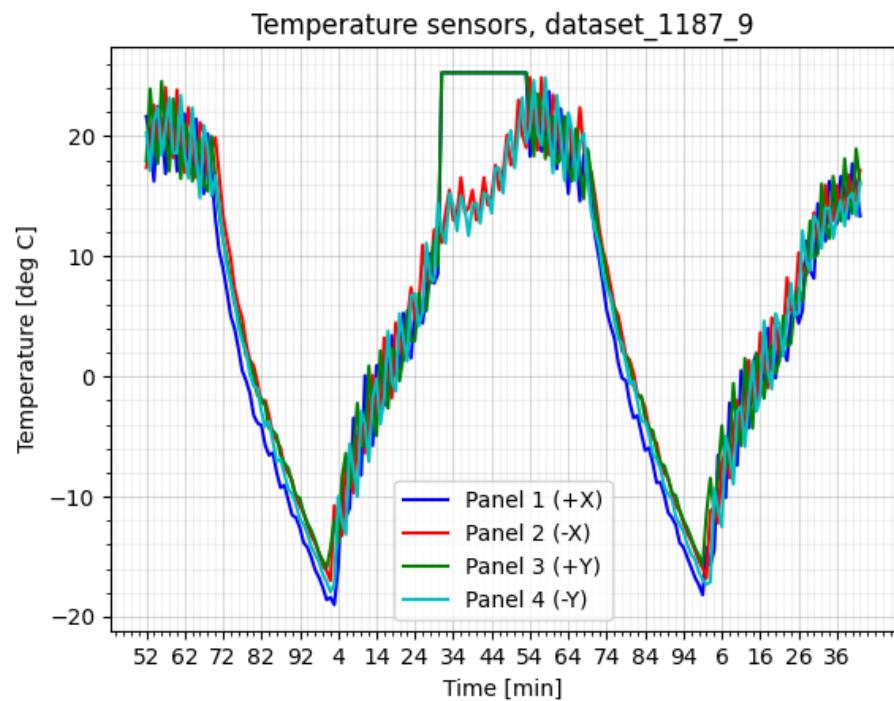
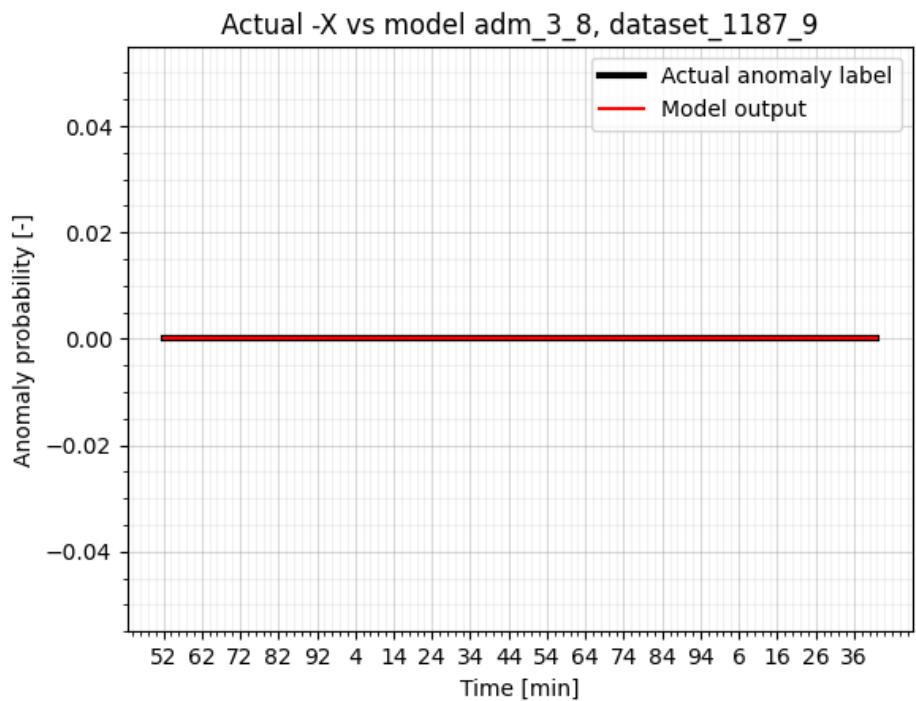
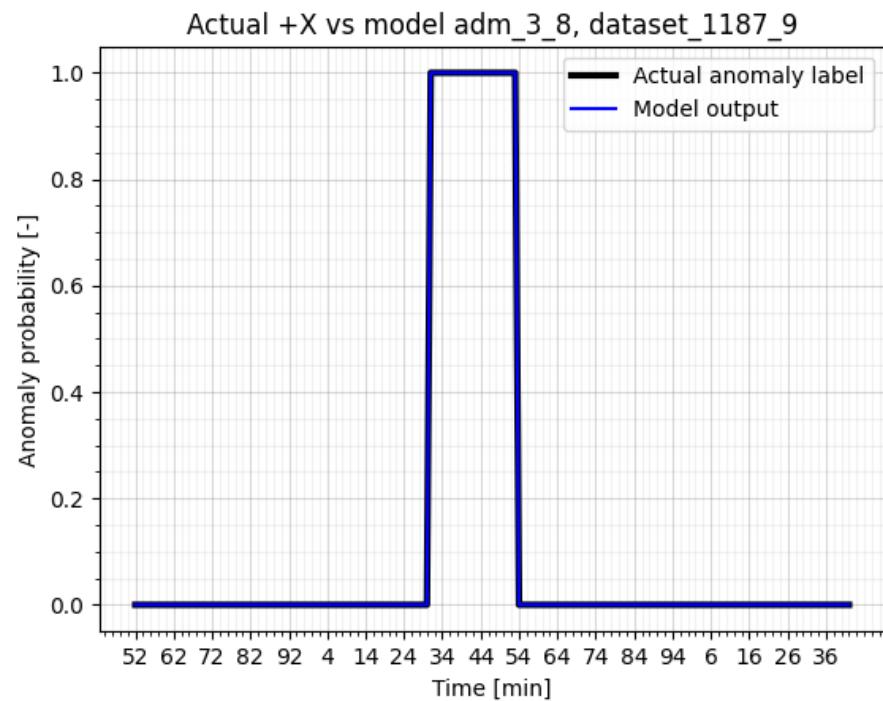


Figure 9: model inferences on dataset_1187_8_mod1.png





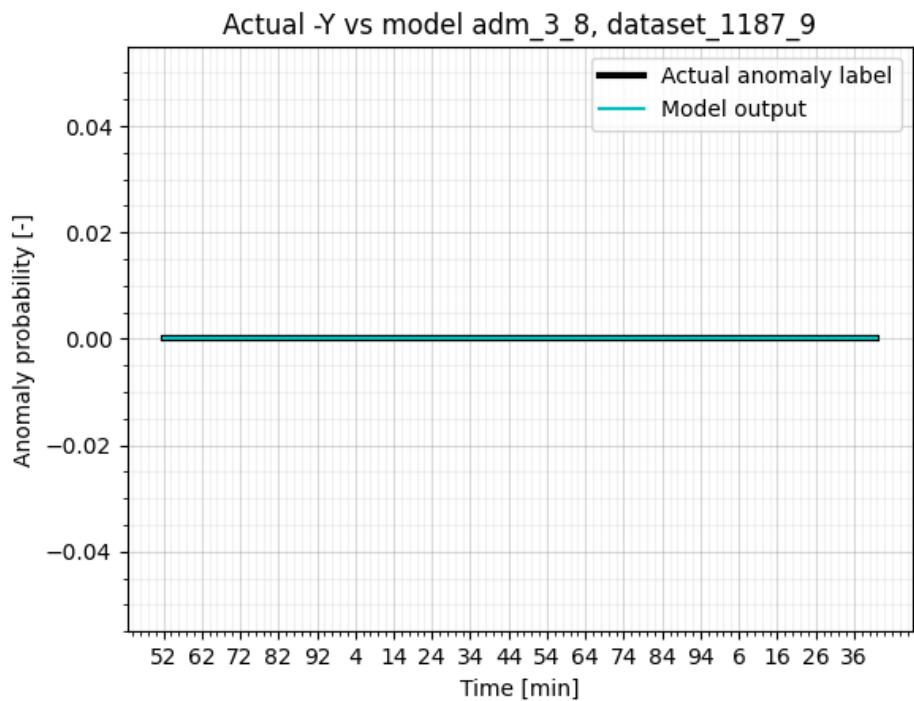
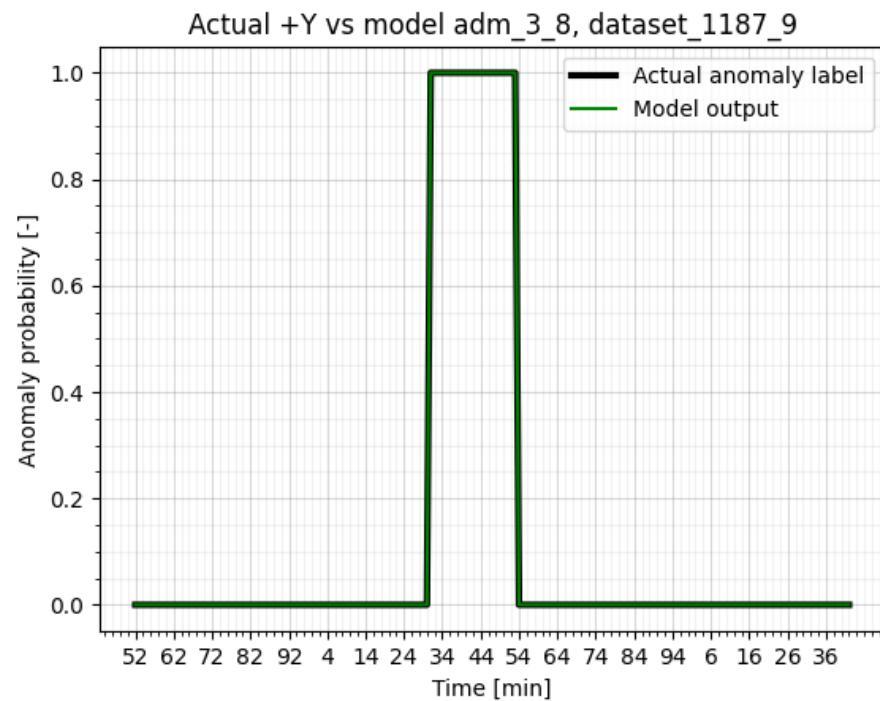
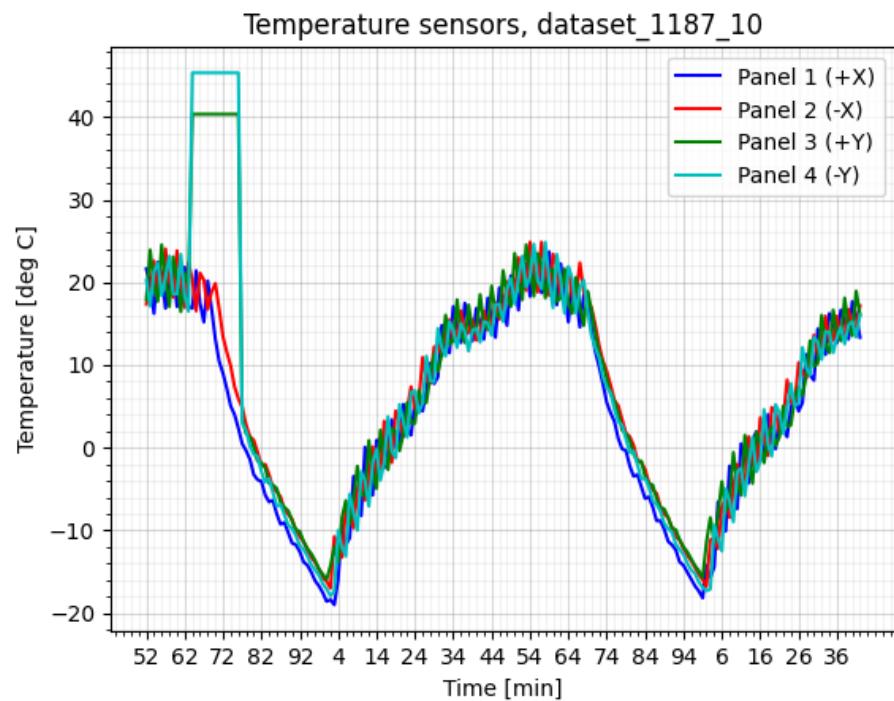
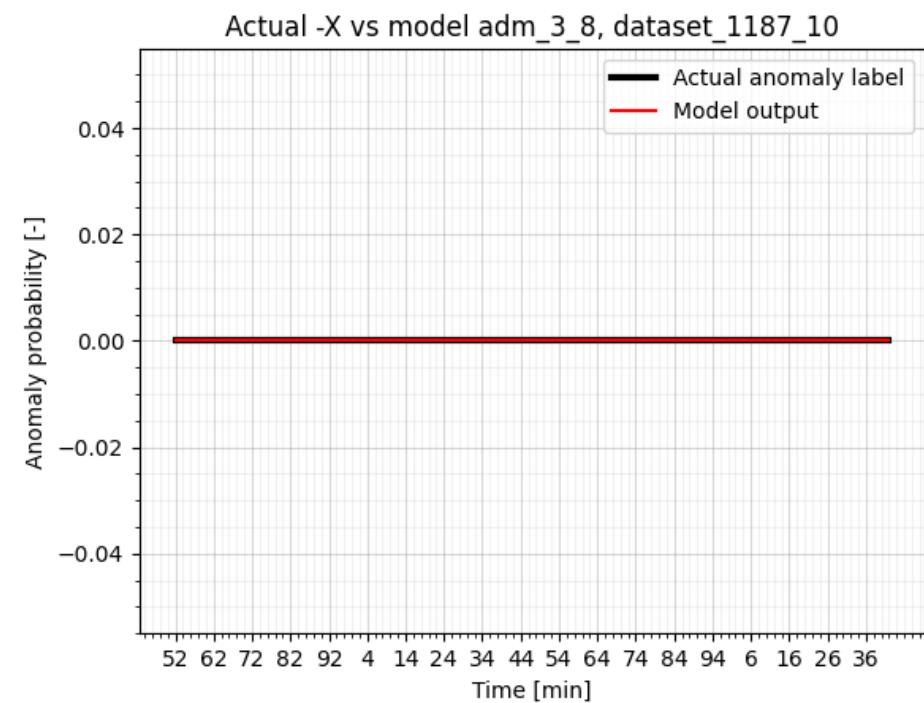
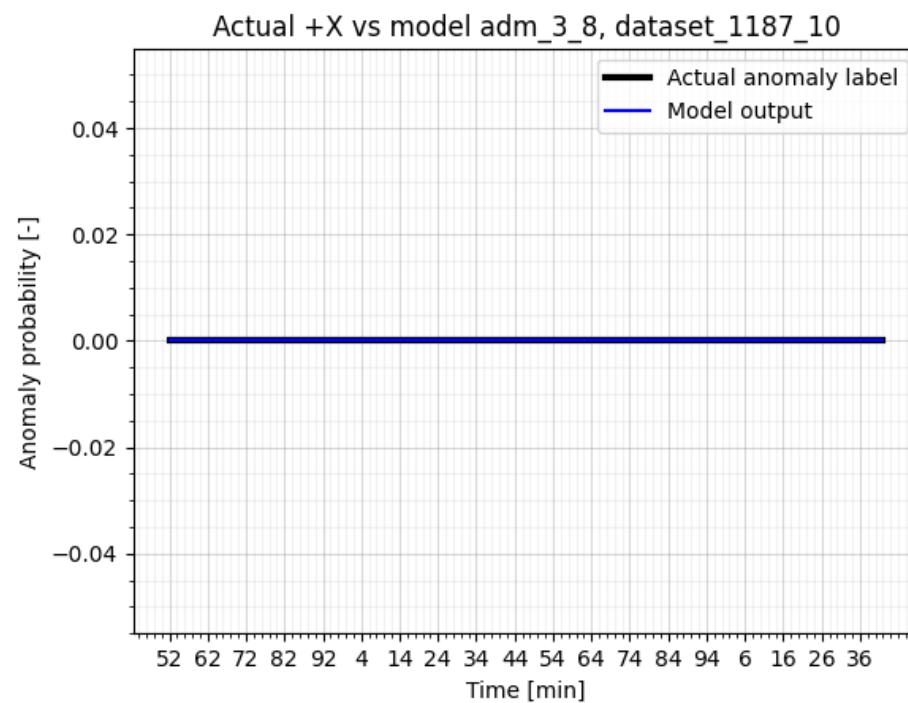


Figure 10: model inferences on dataset_1187_9_mod1.png





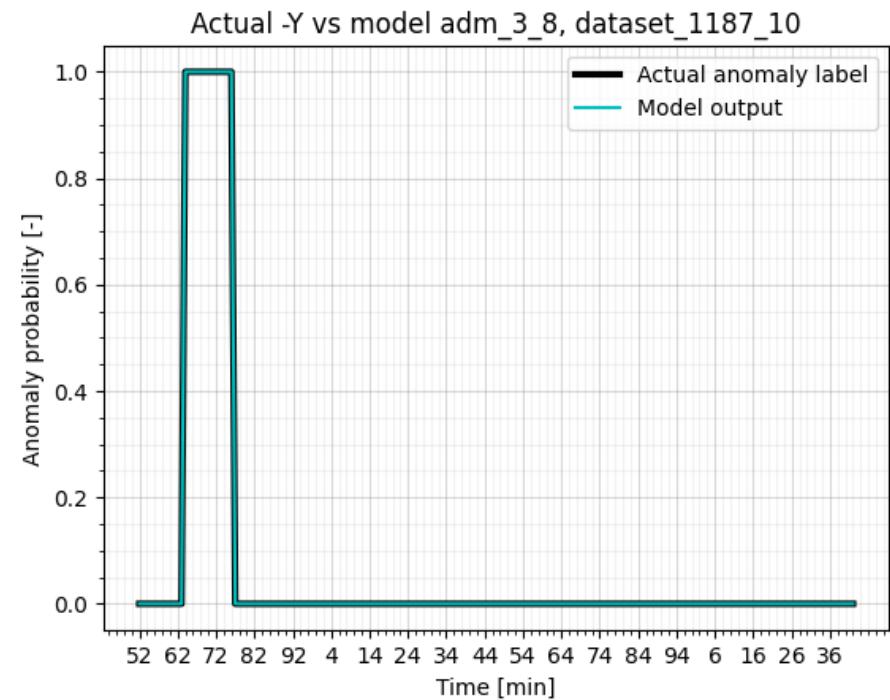
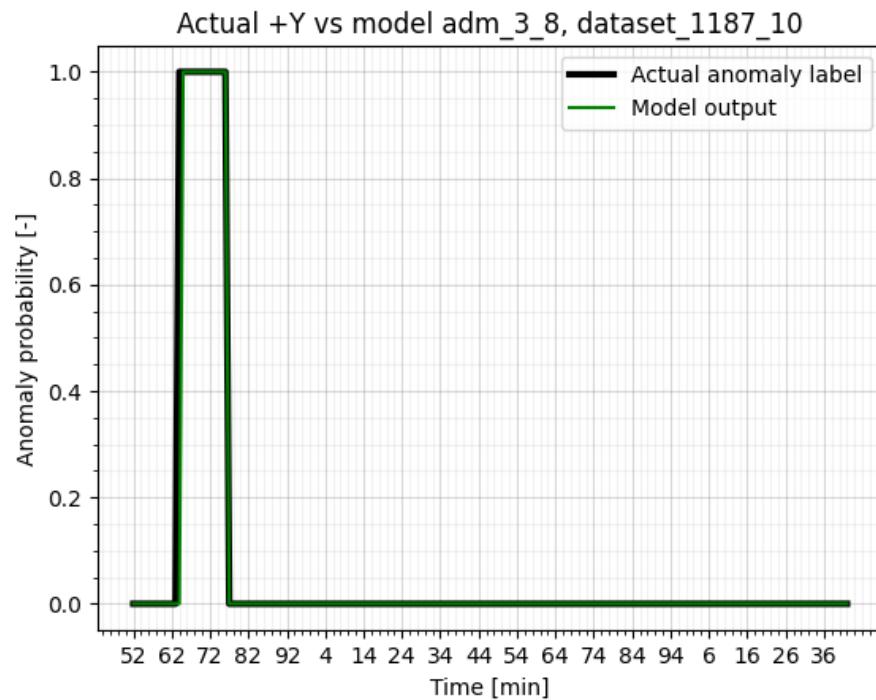
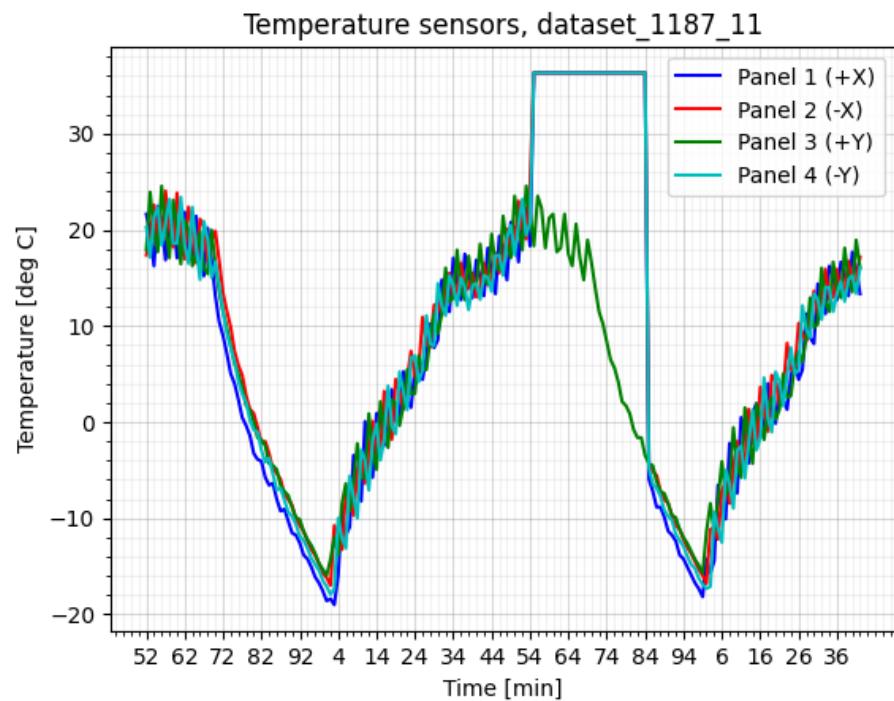
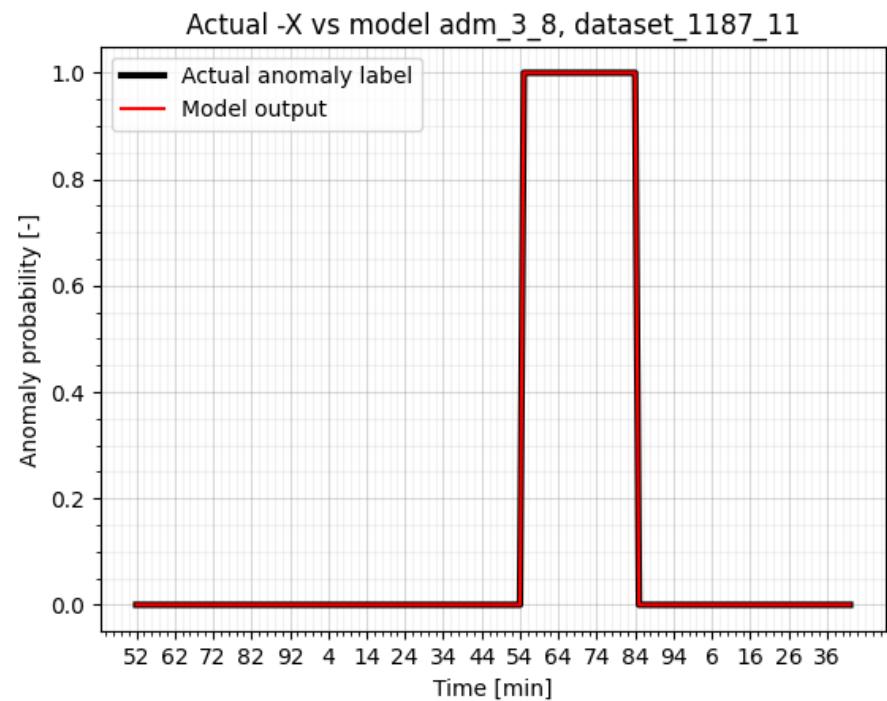
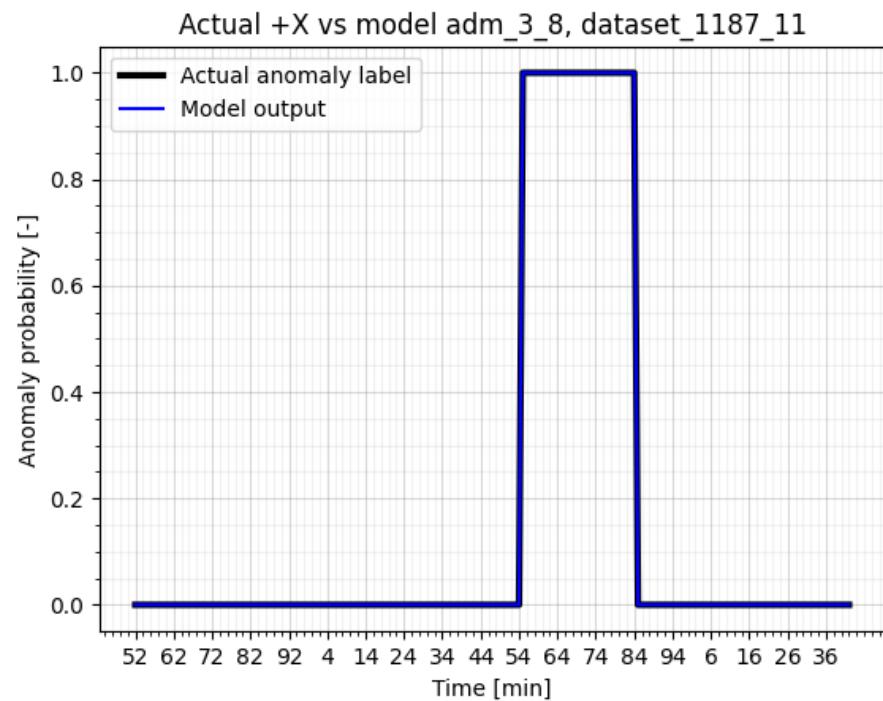


Figure 11: model inferences on dataset_1187_10_mod1.png





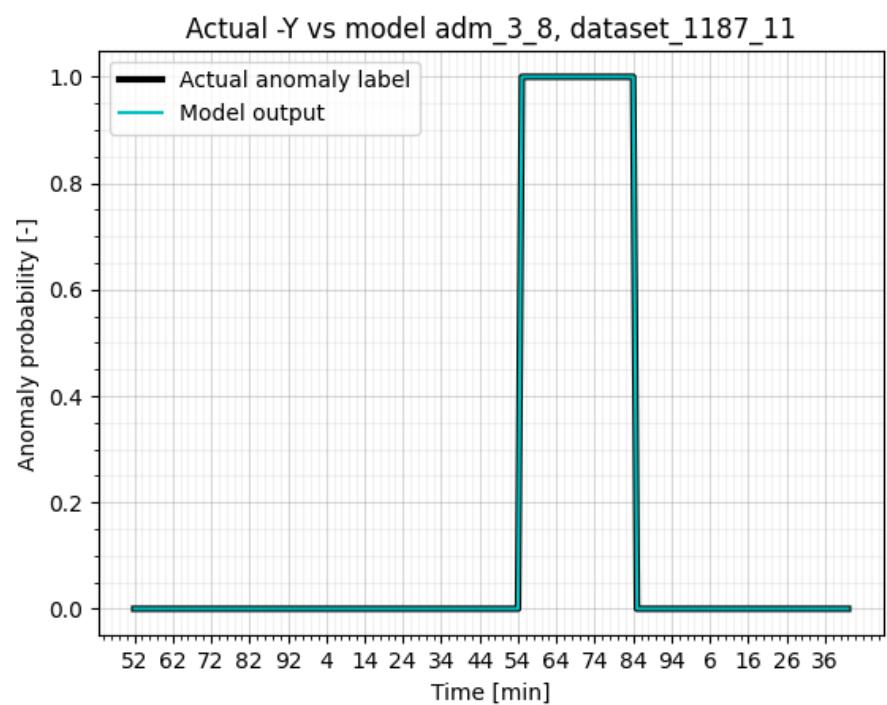
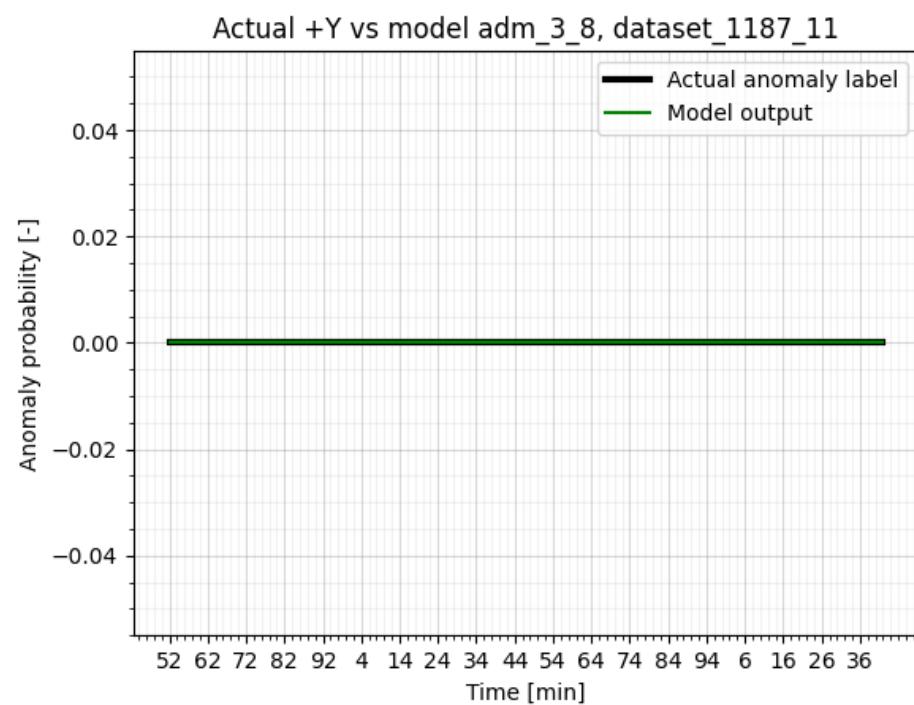
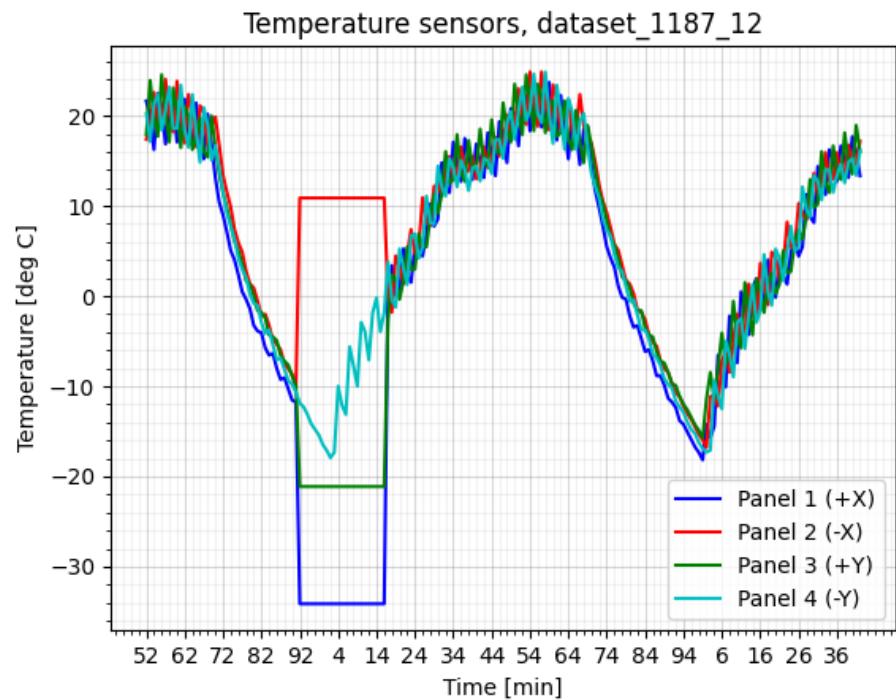
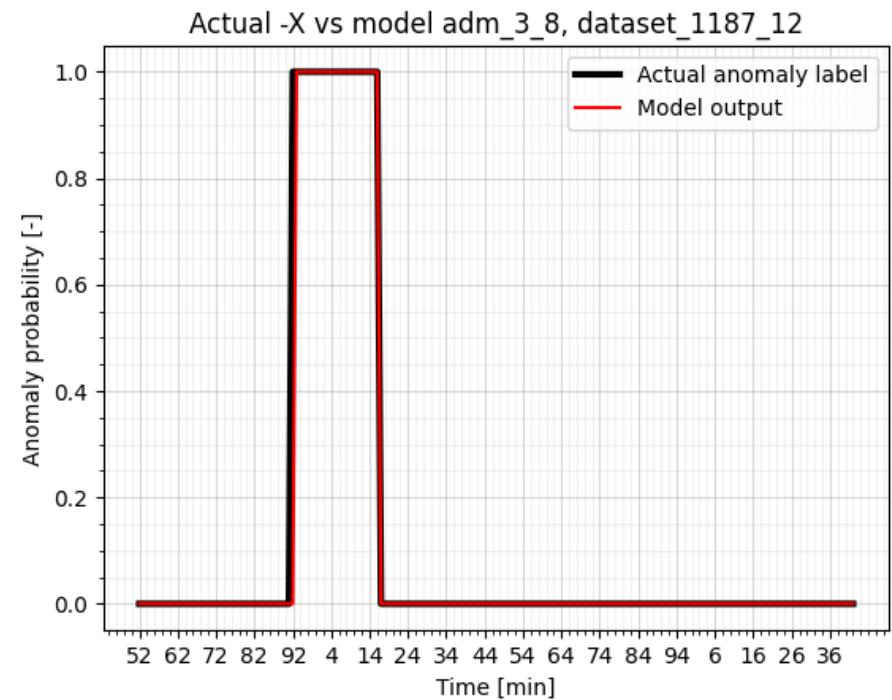
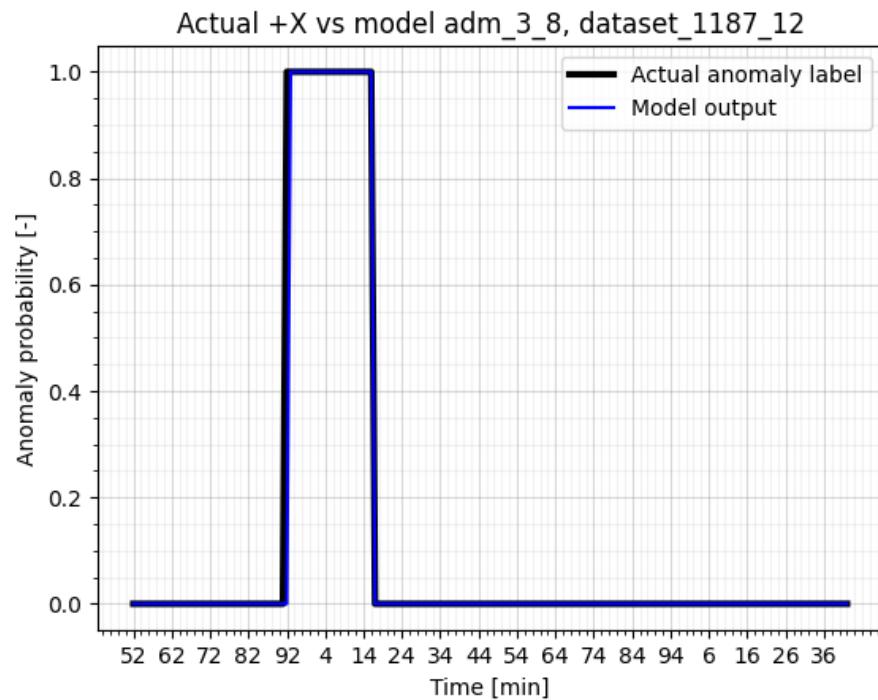


Figure 12: model inferences on dataset_1187_11_mod1.png





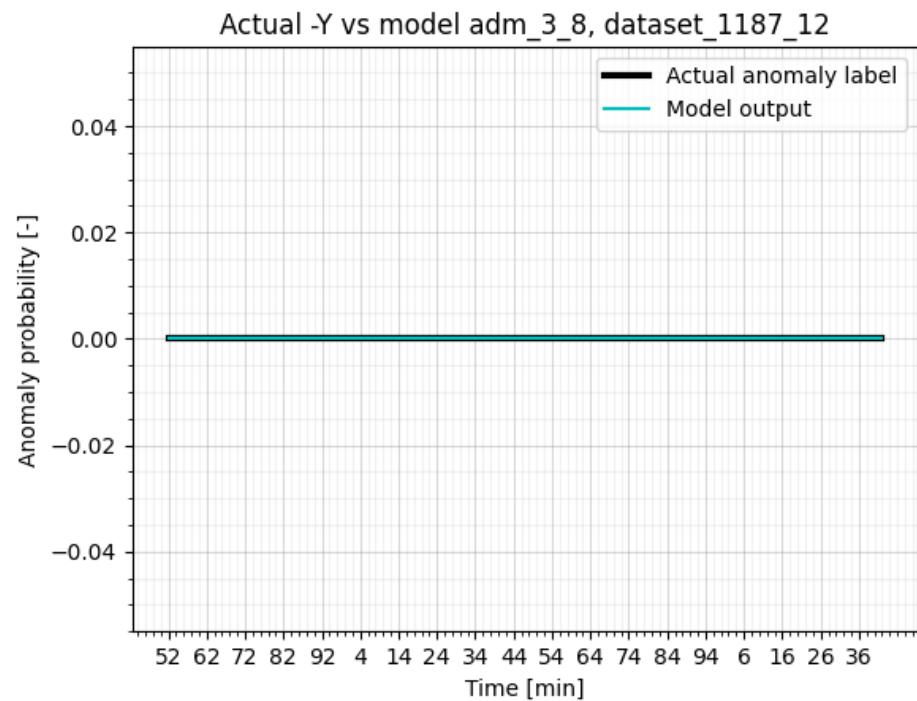
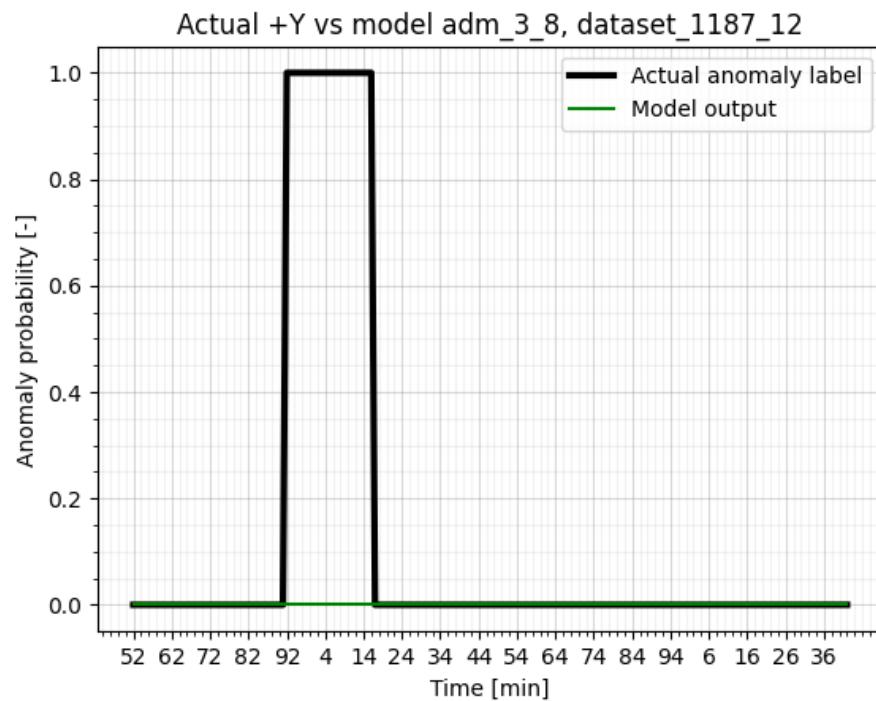
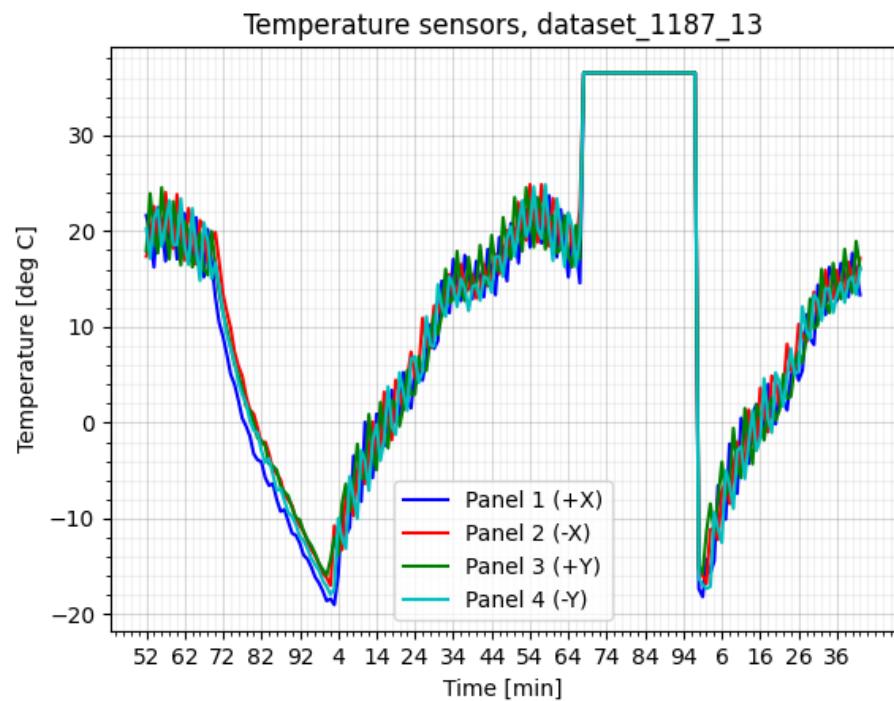
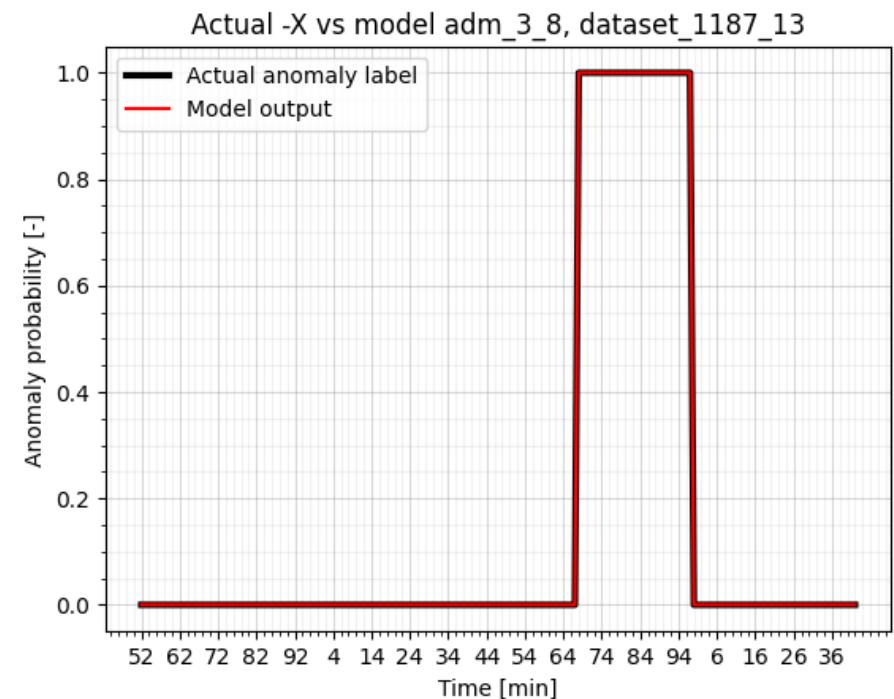
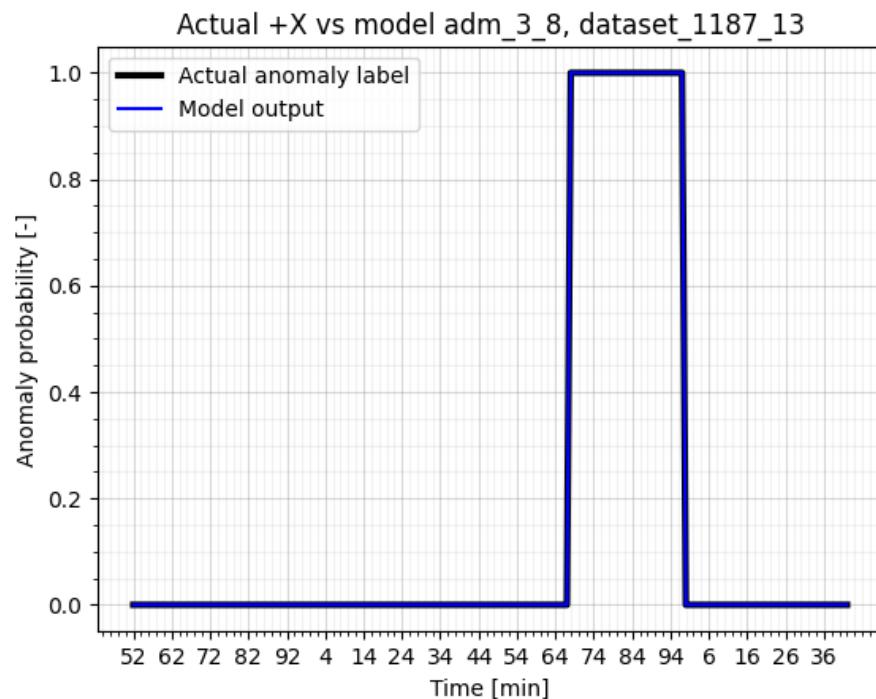


Figure 13: model inferences on dataset_1187_12_mod1.png





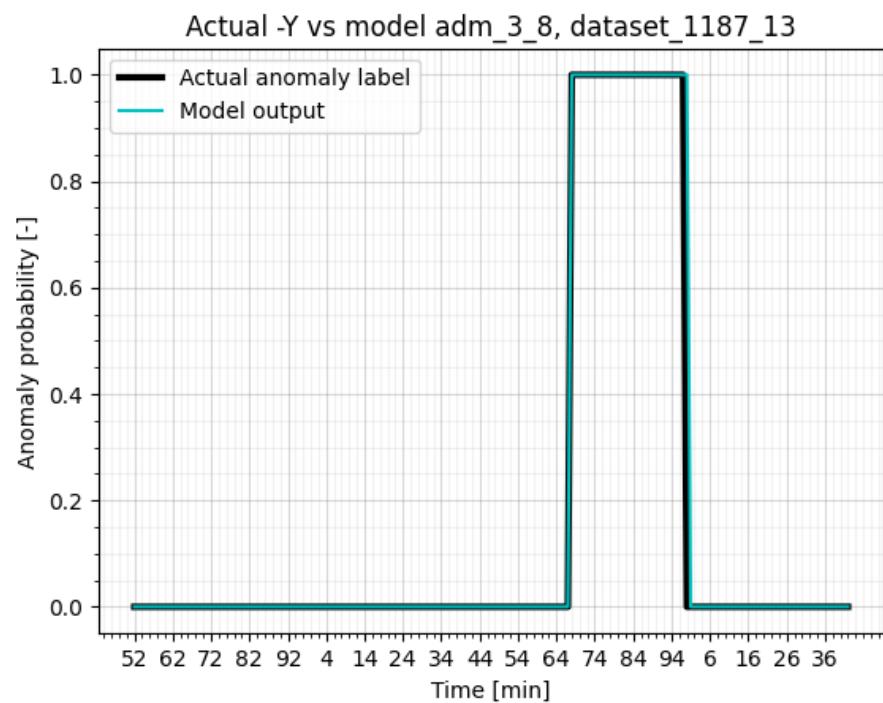
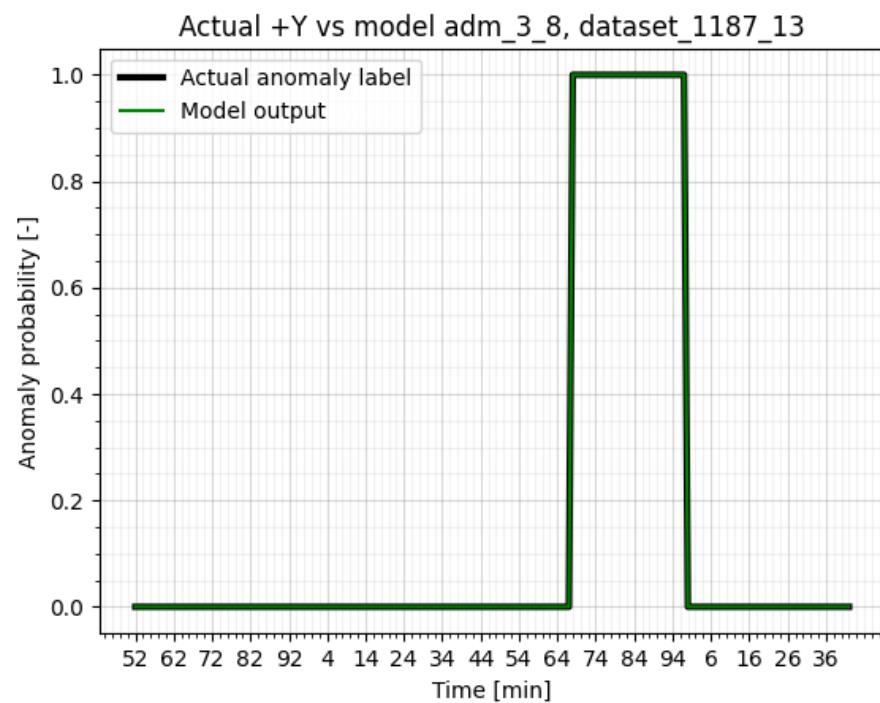
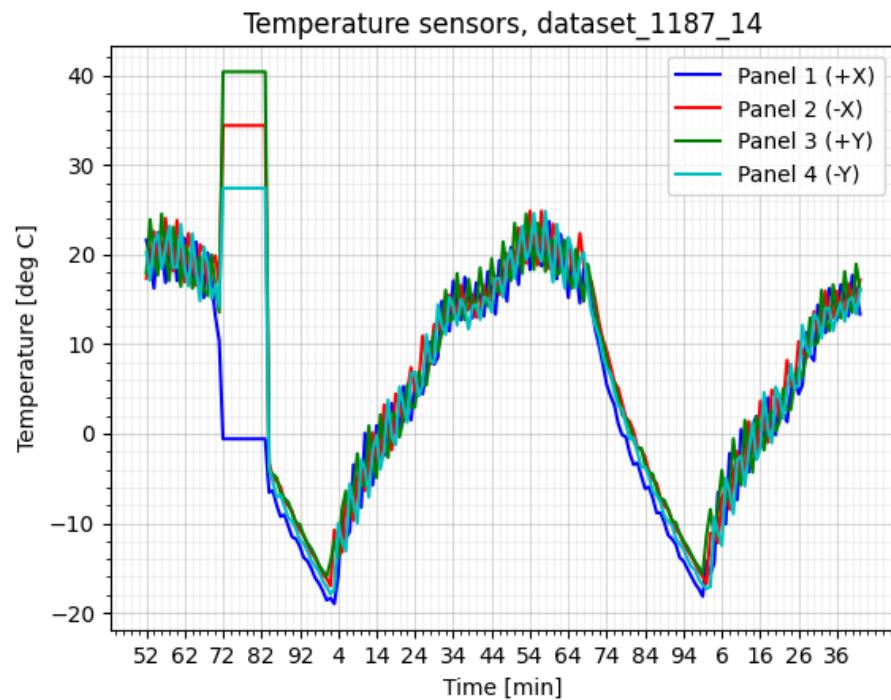
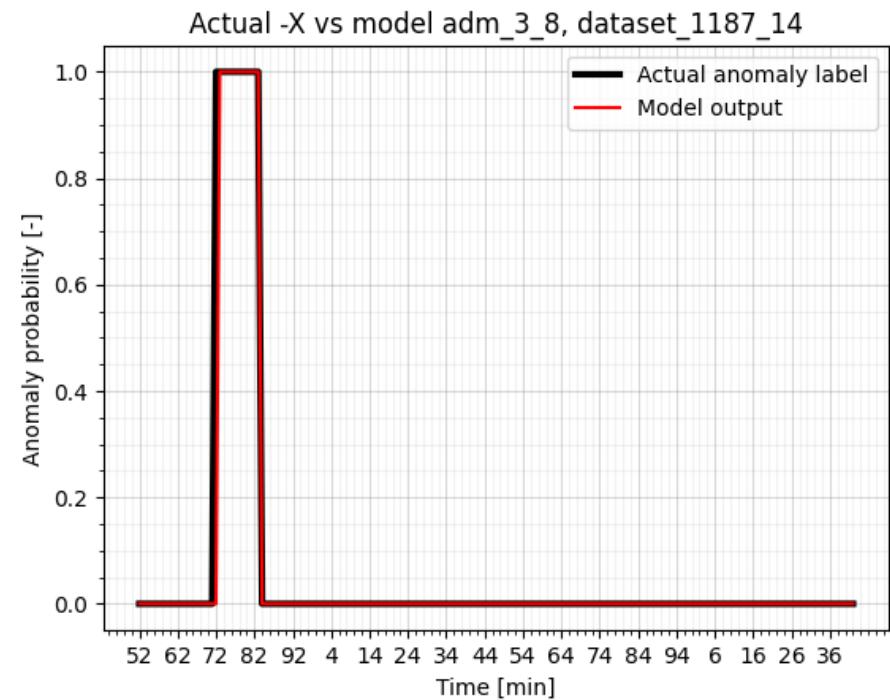
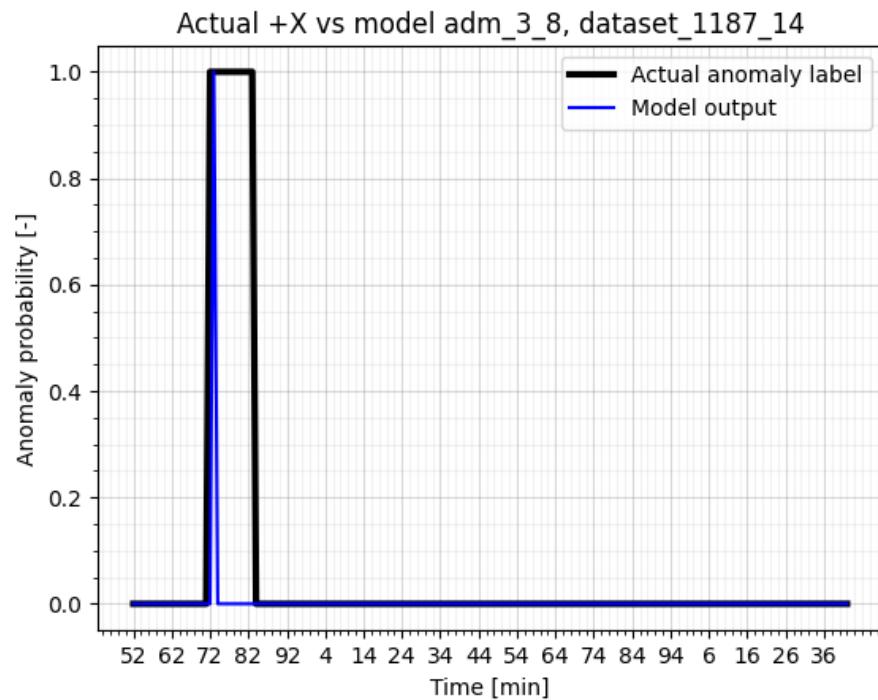


Figure 14: model inferences on dataset_1187_13_mod1.png





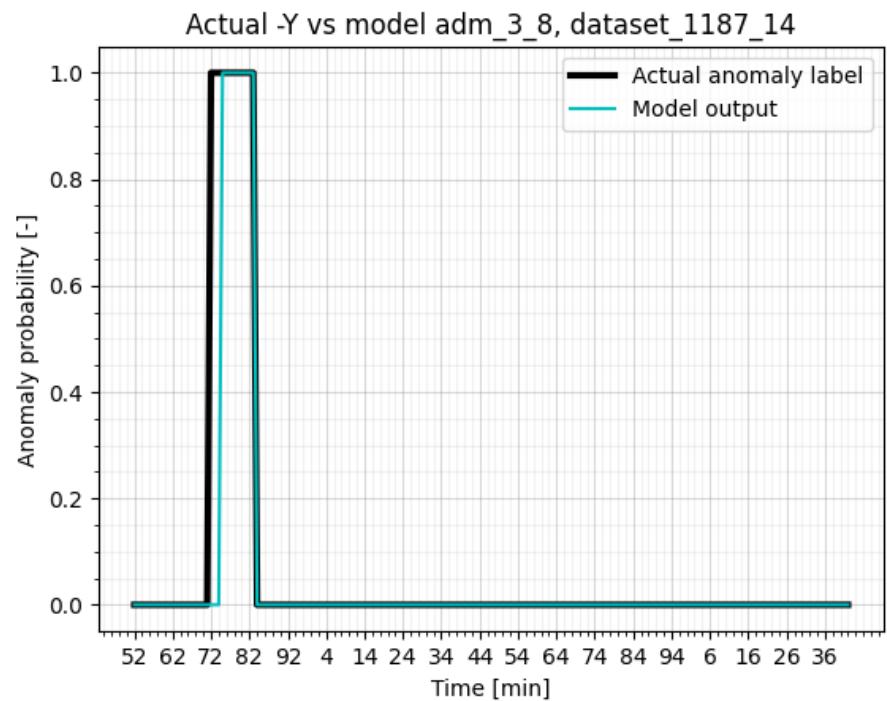
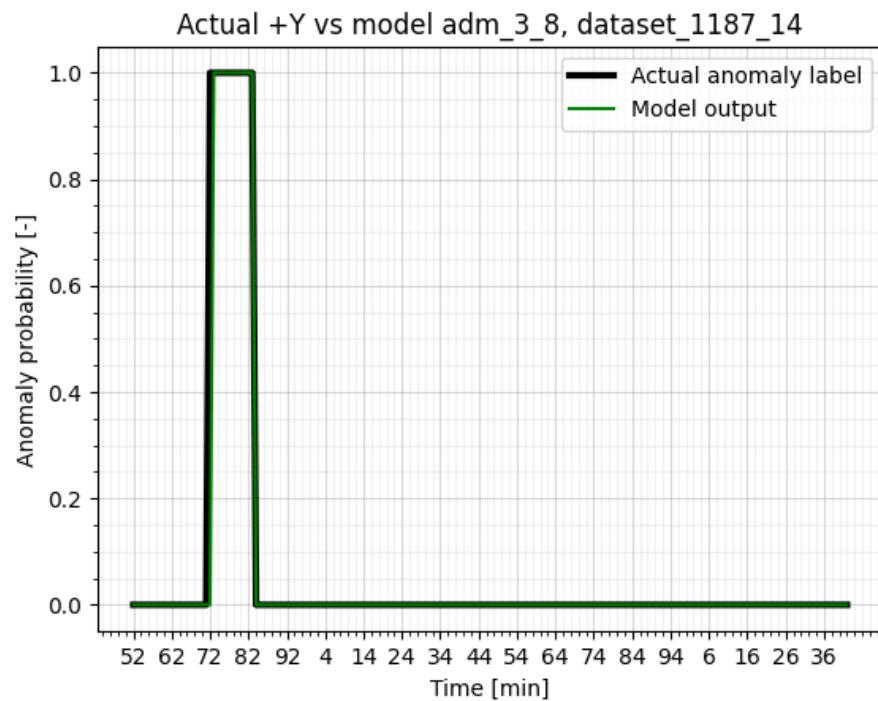
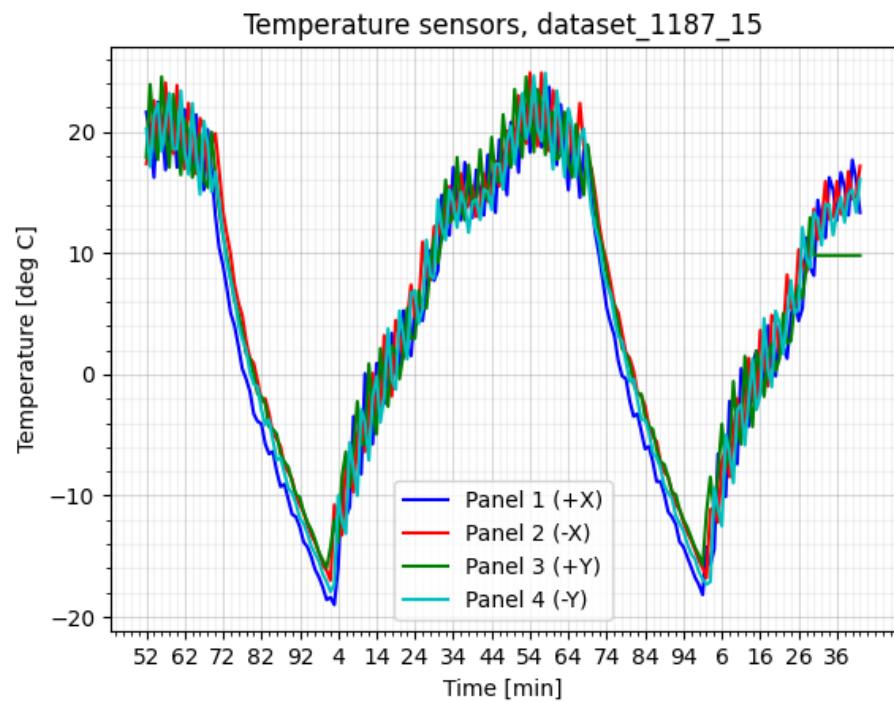
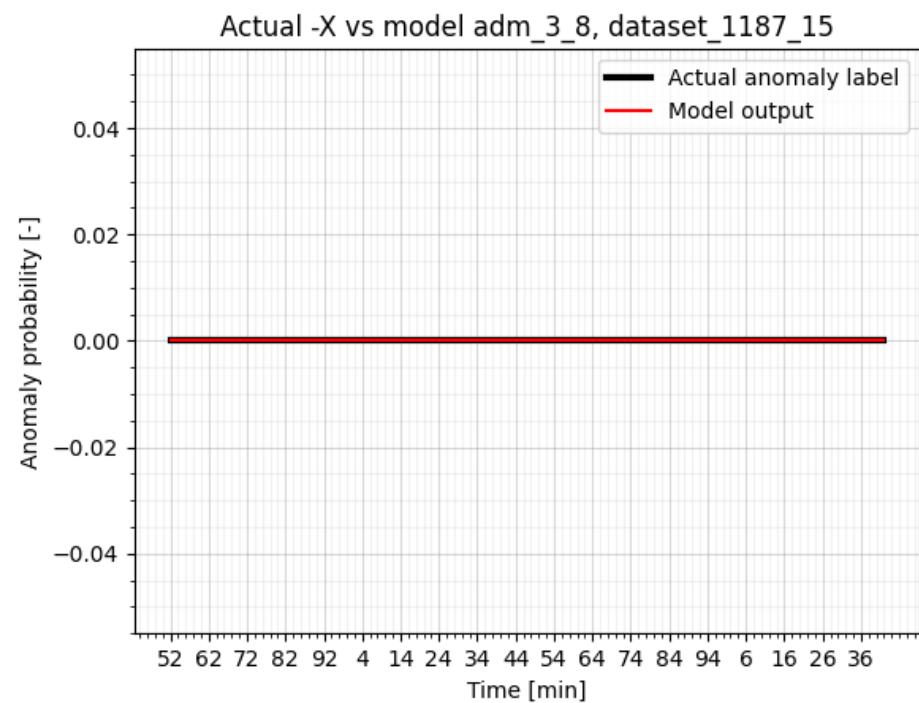
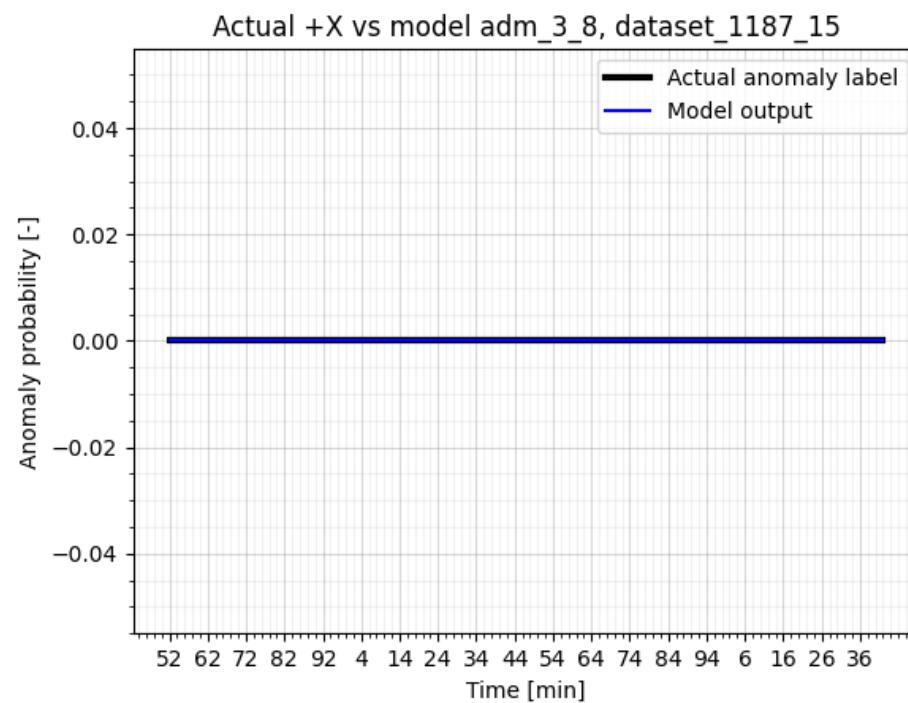


Figure 15: model inferences on dataset_1187_14_mod1.png





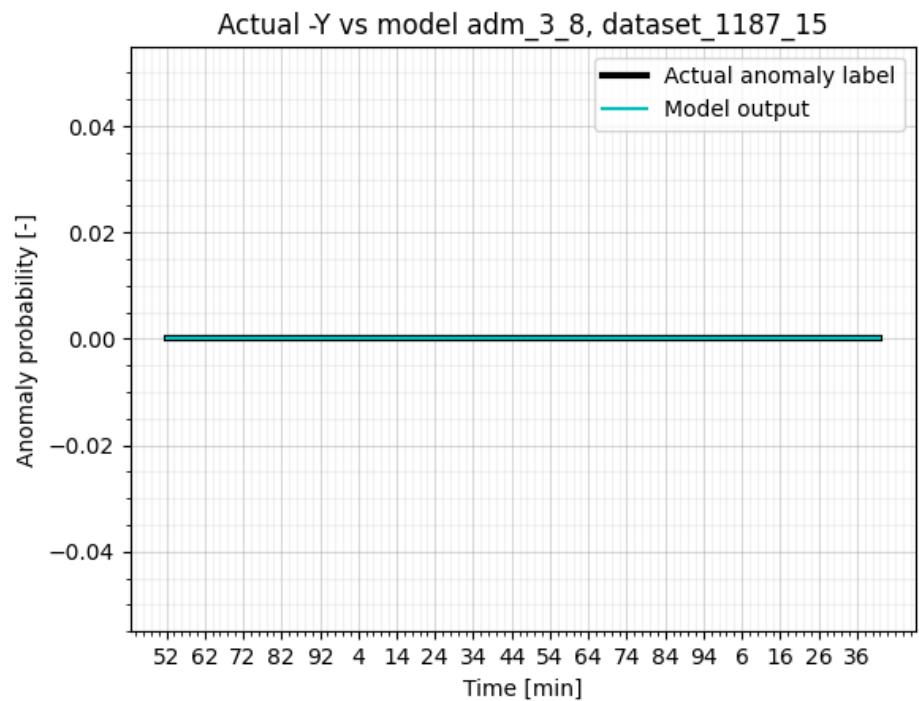
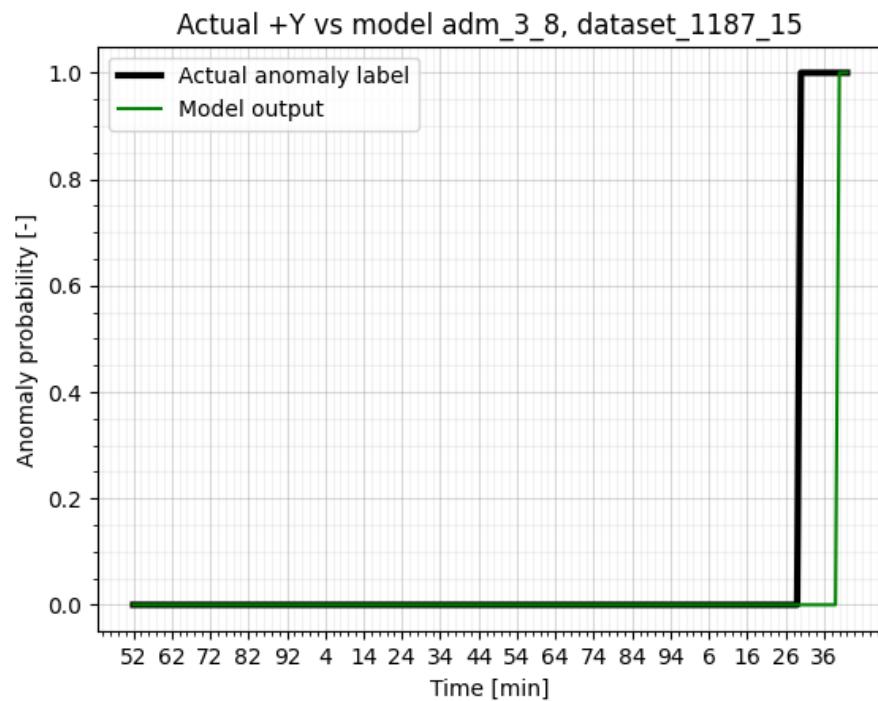
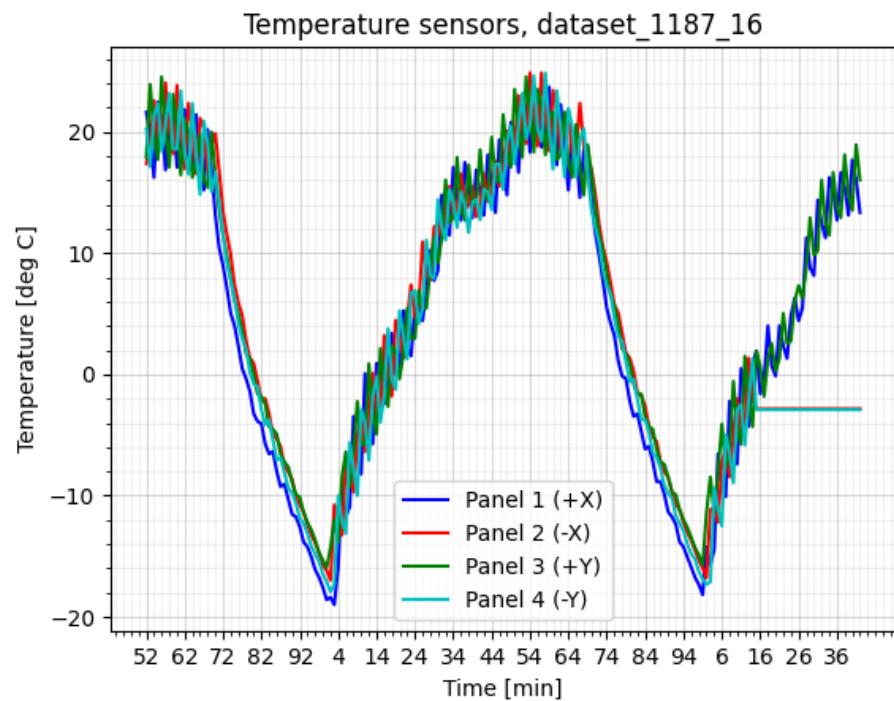
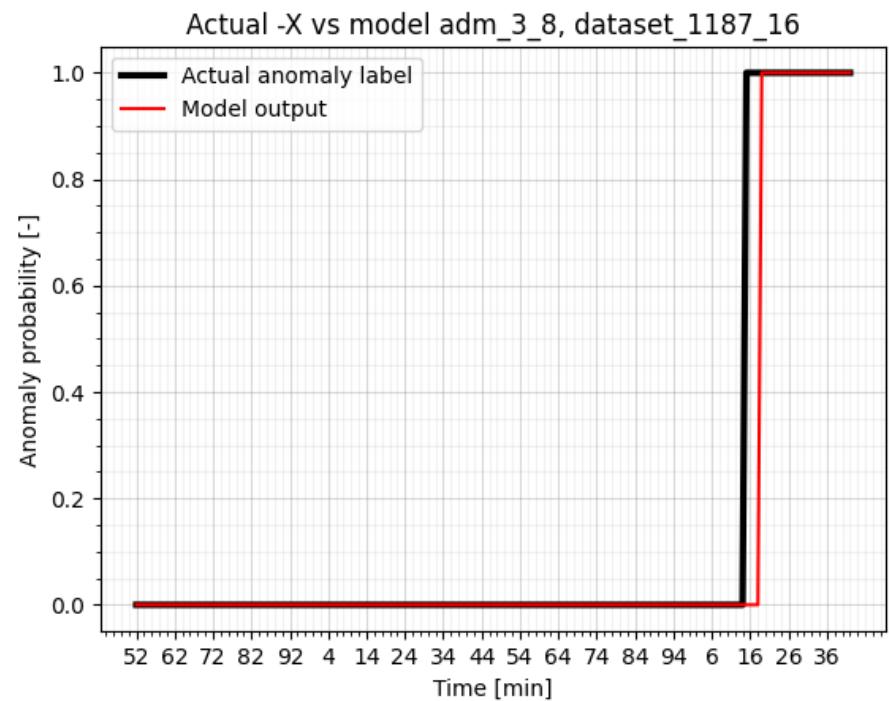
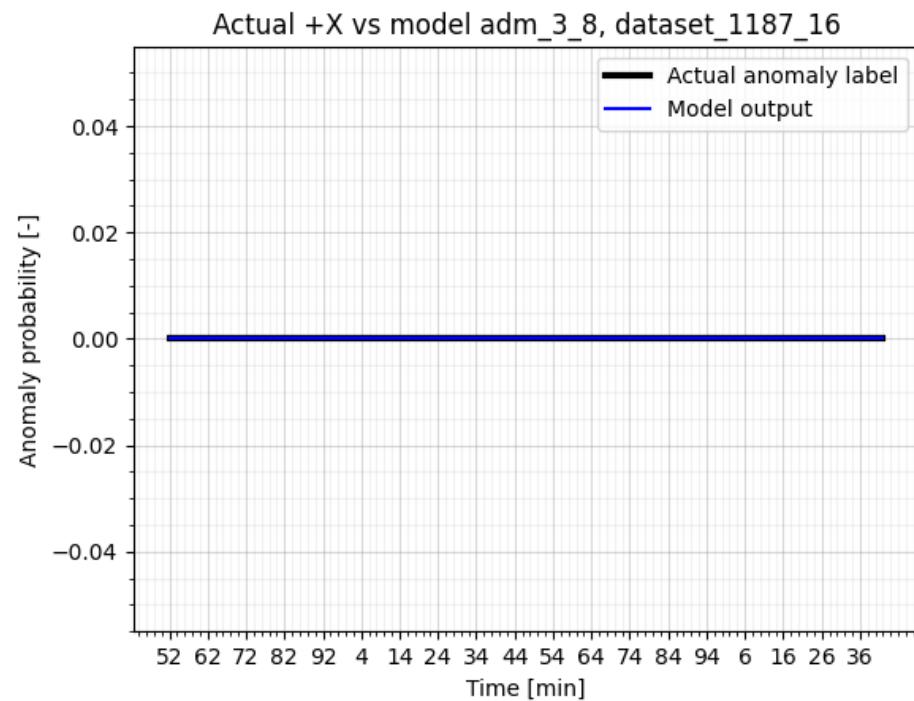


Figure 16: model inferences on dataset_1187_15_mod1.png





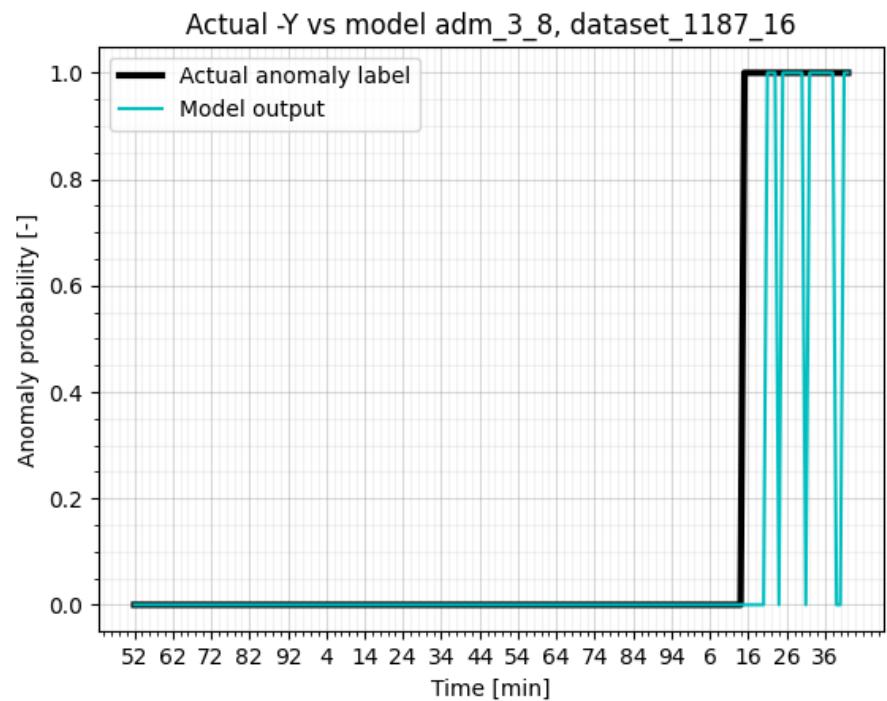
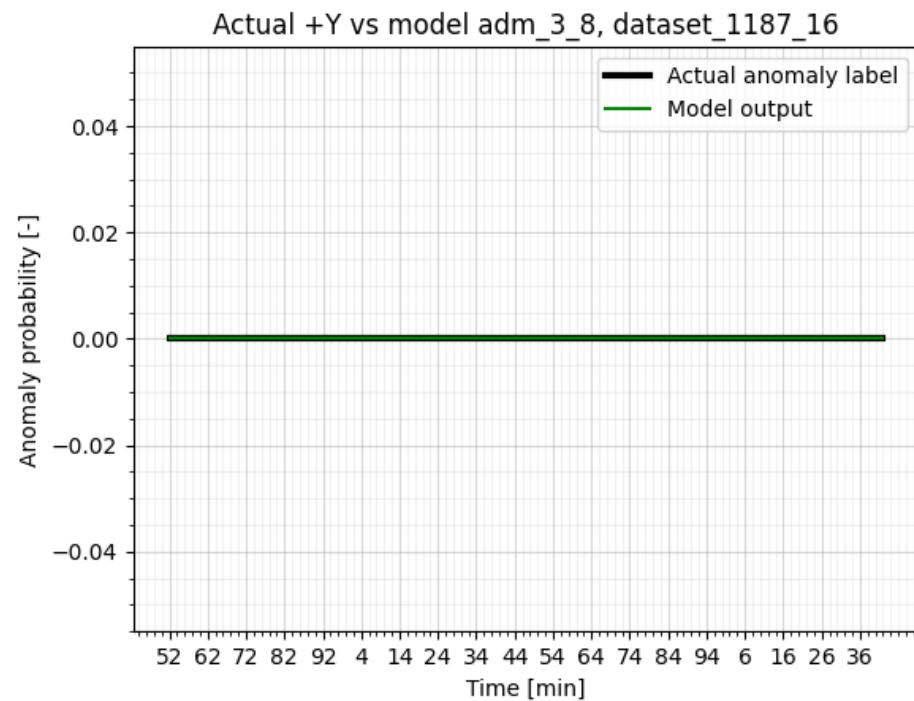
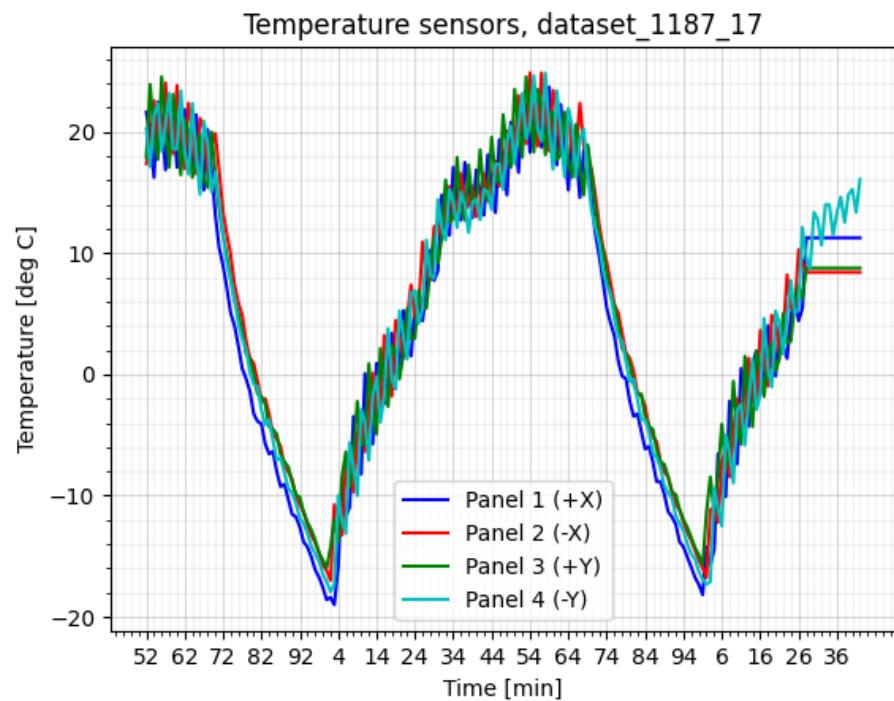
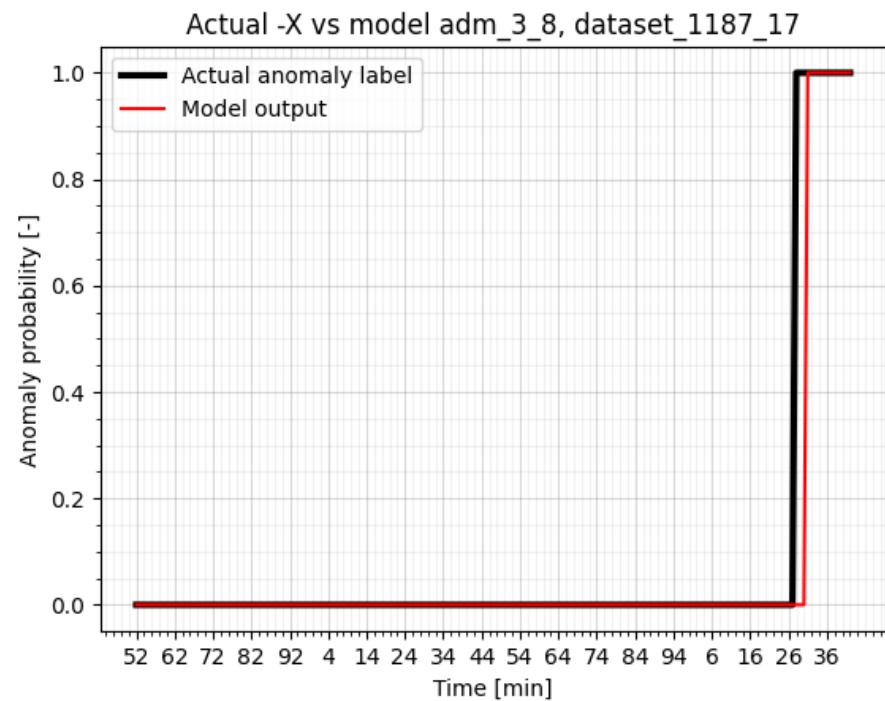
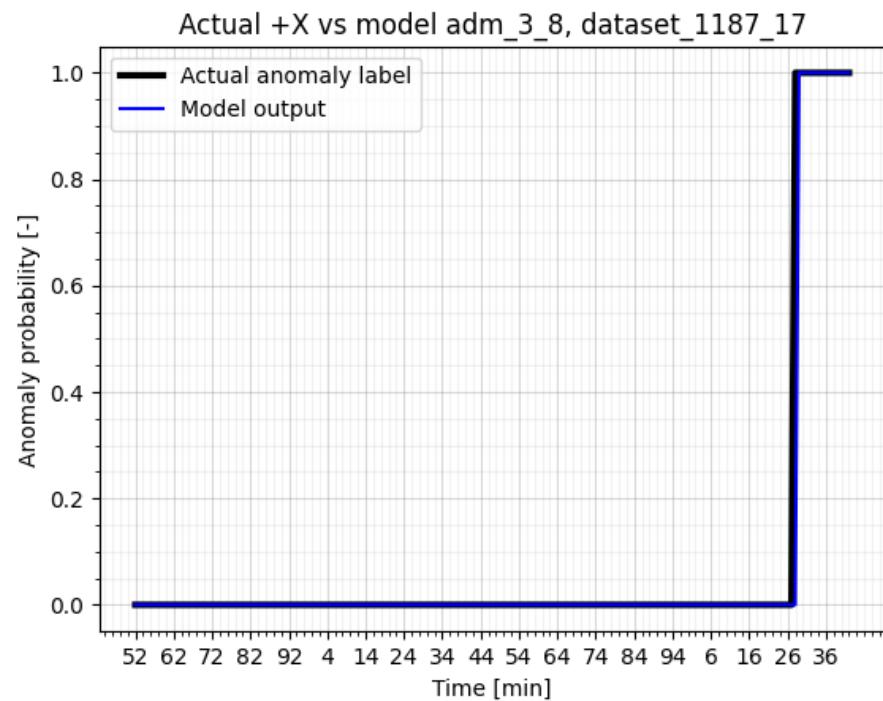


Figure 17: model inferences on dataset_1187_16_mod1.png





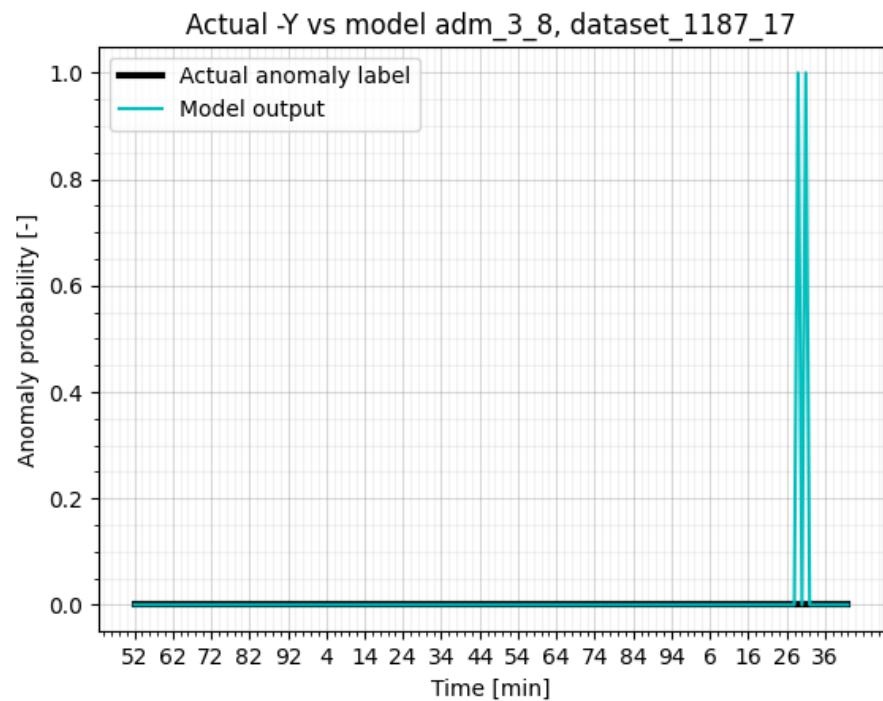
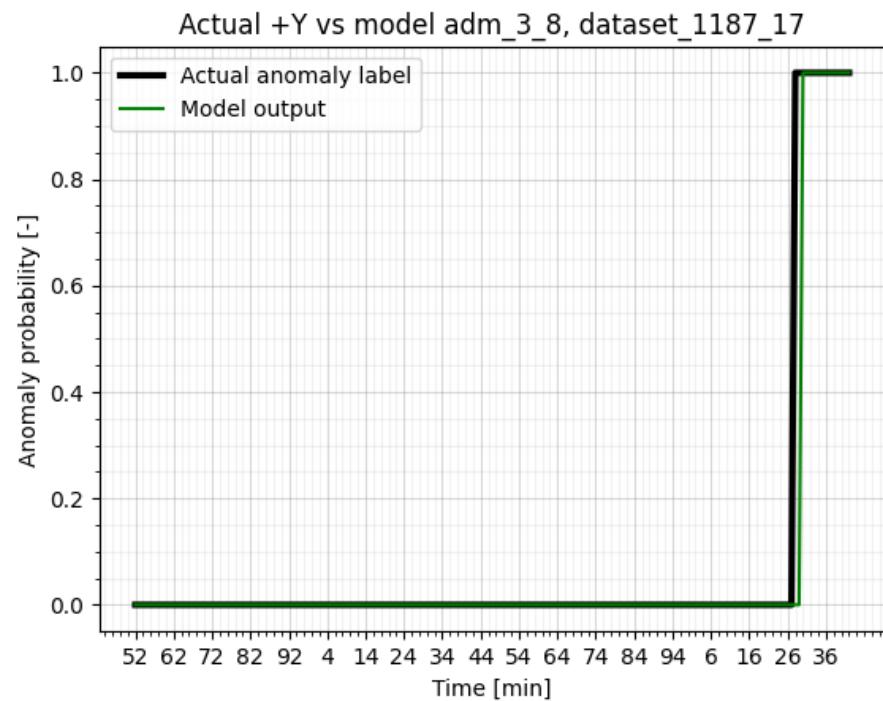
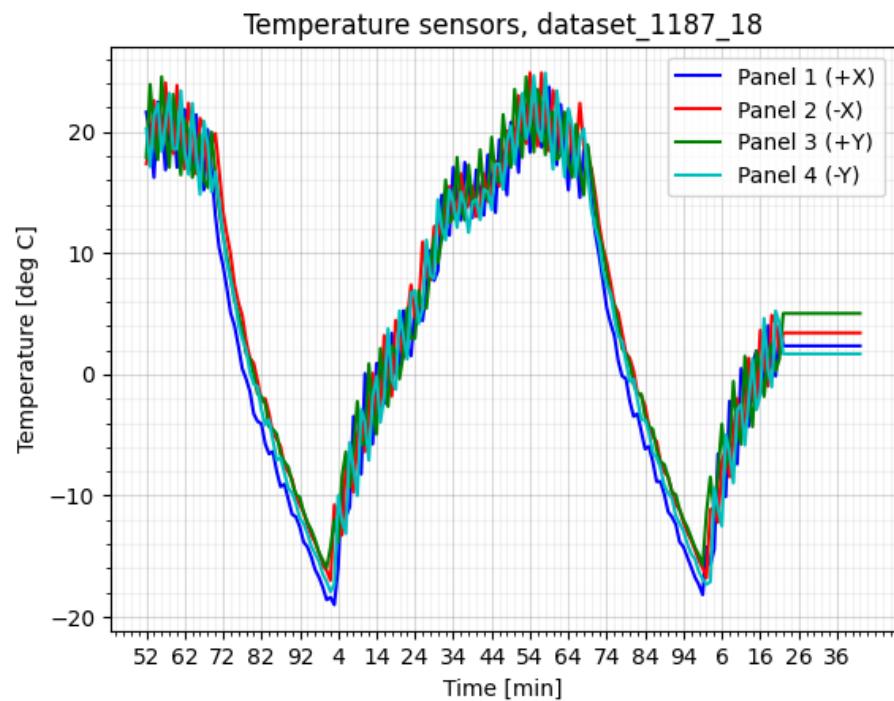
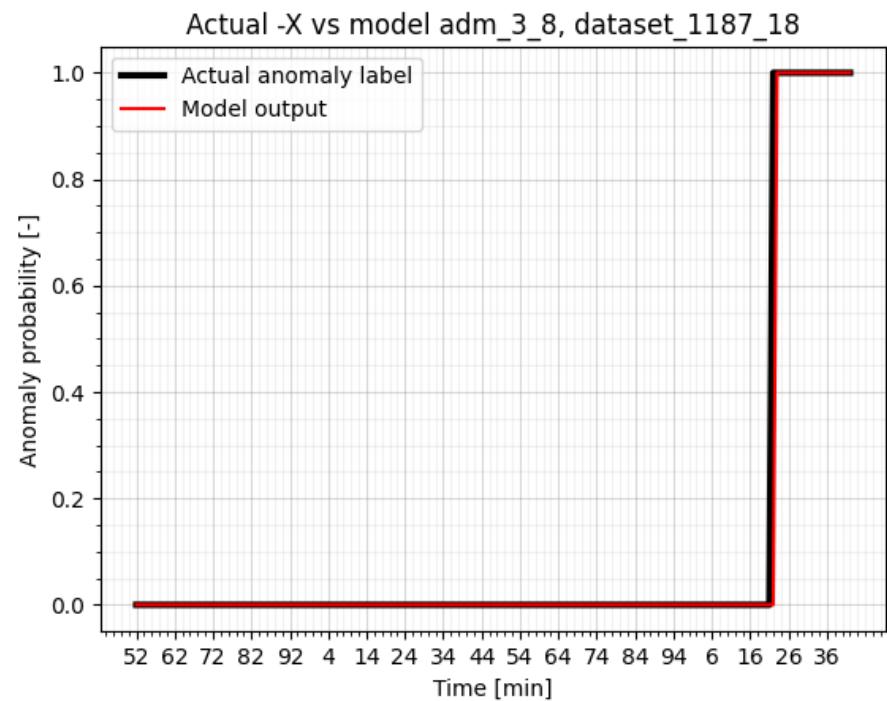
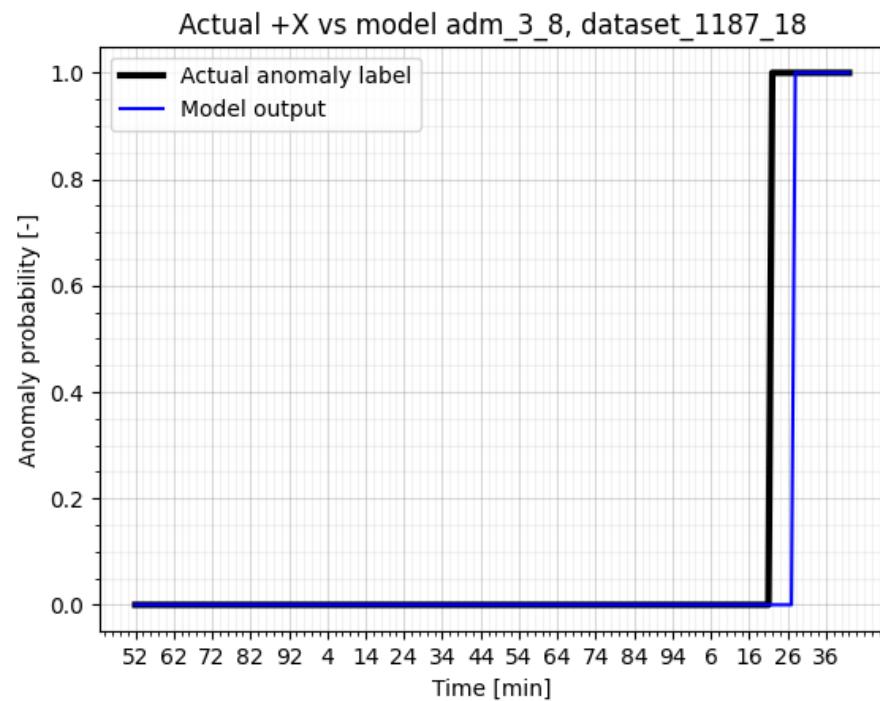


Figure 18: model inferences on dataset_1187_17_mod1.png





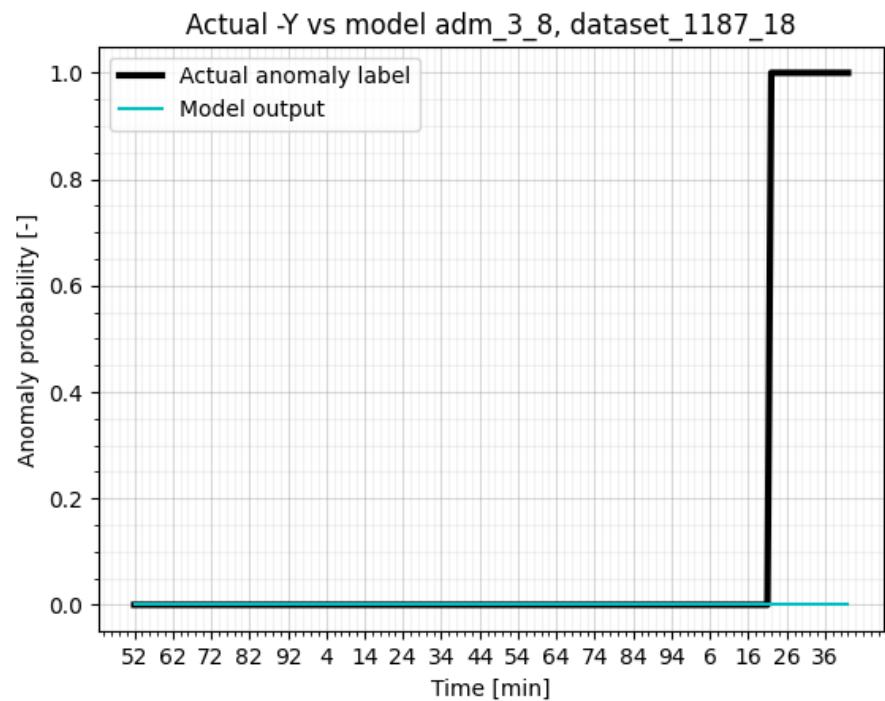
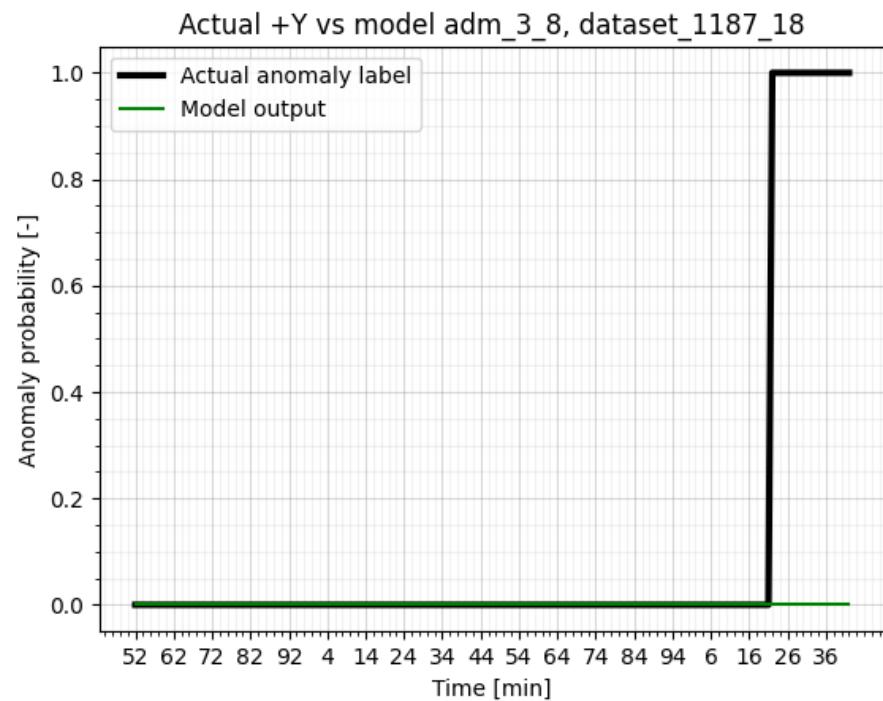
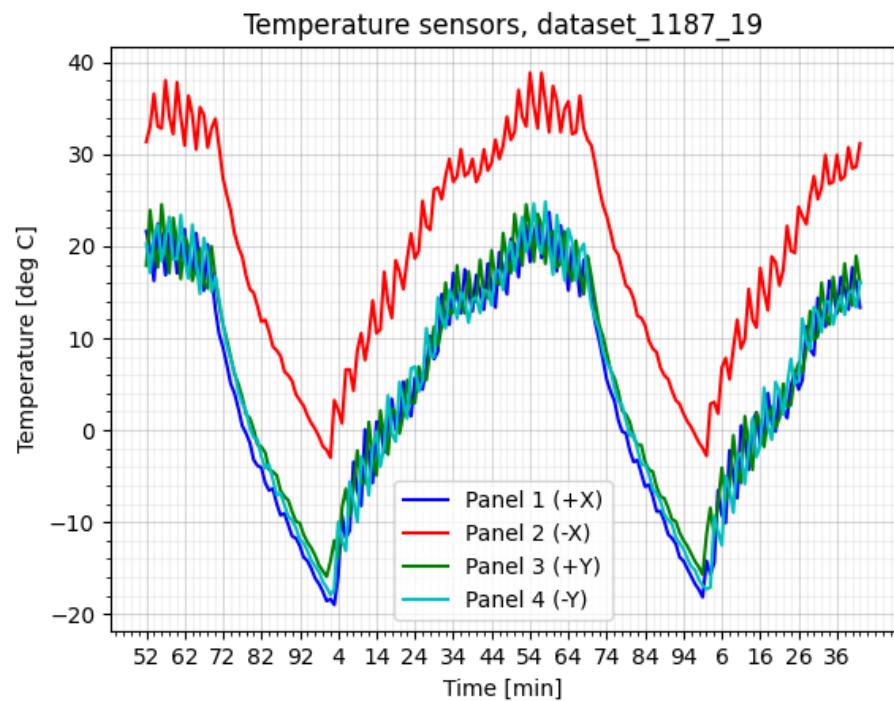
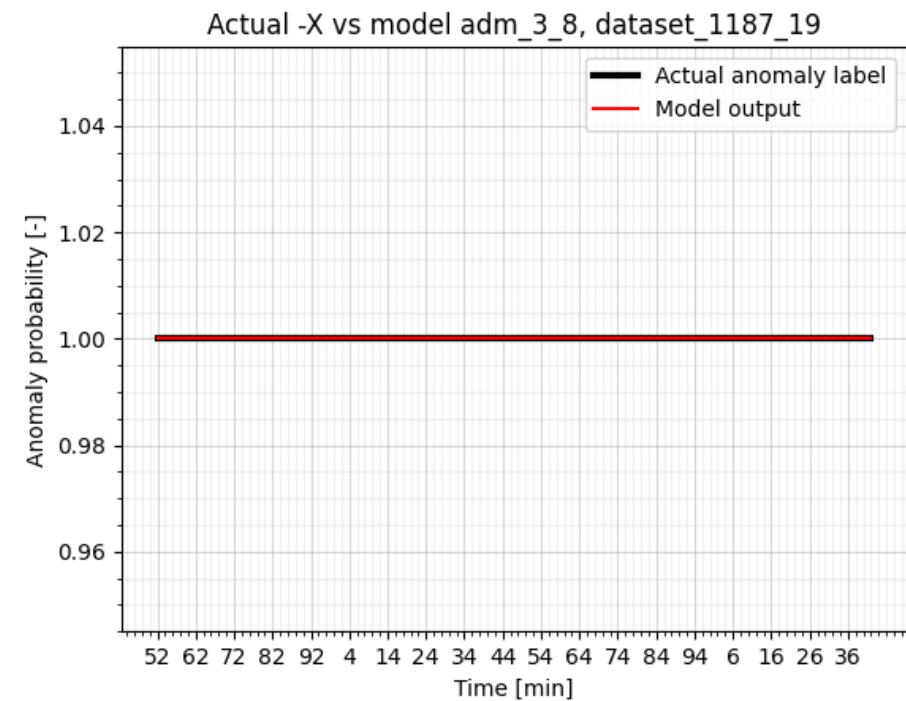
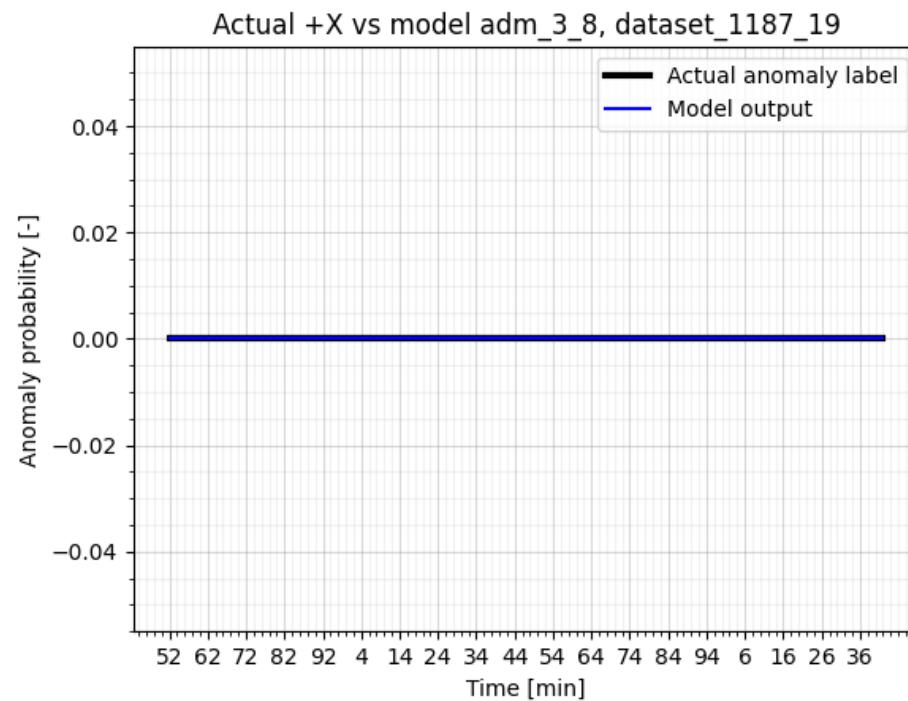


Figure 19: model inferences on dataset_1187_18_mod1.png





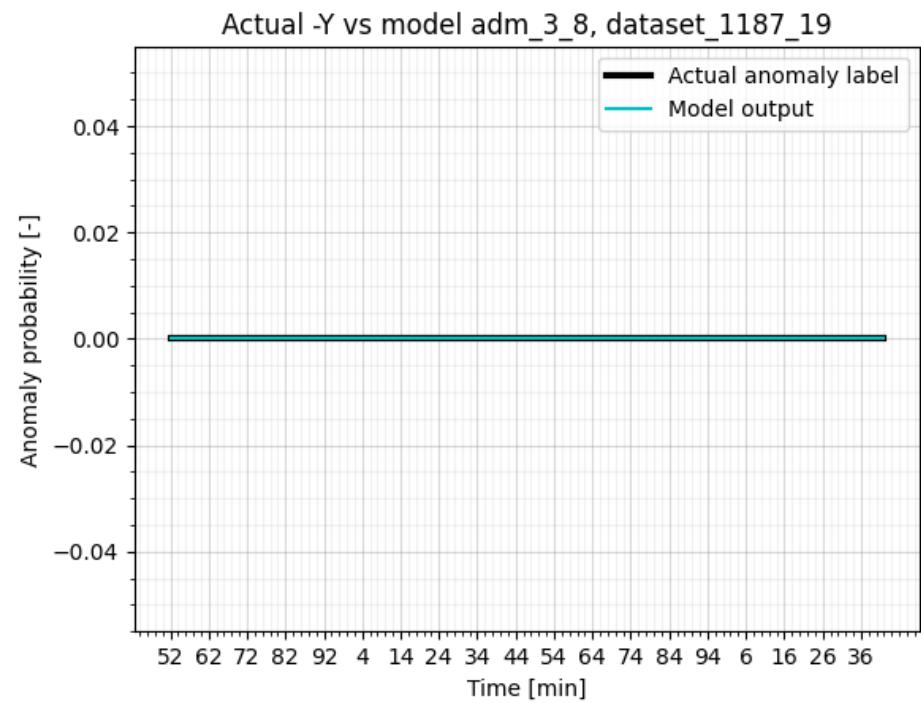
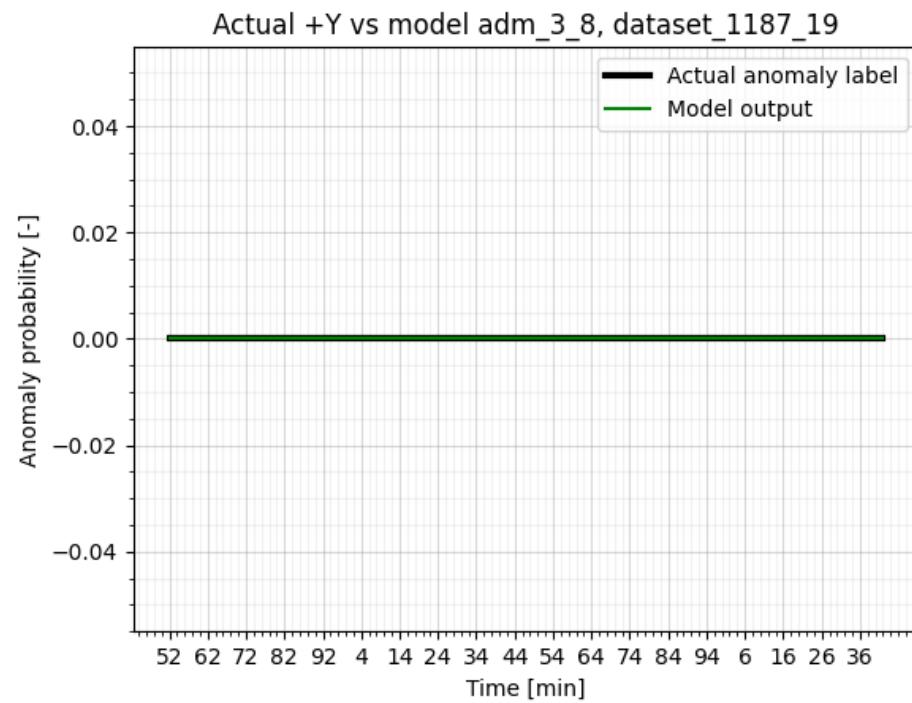
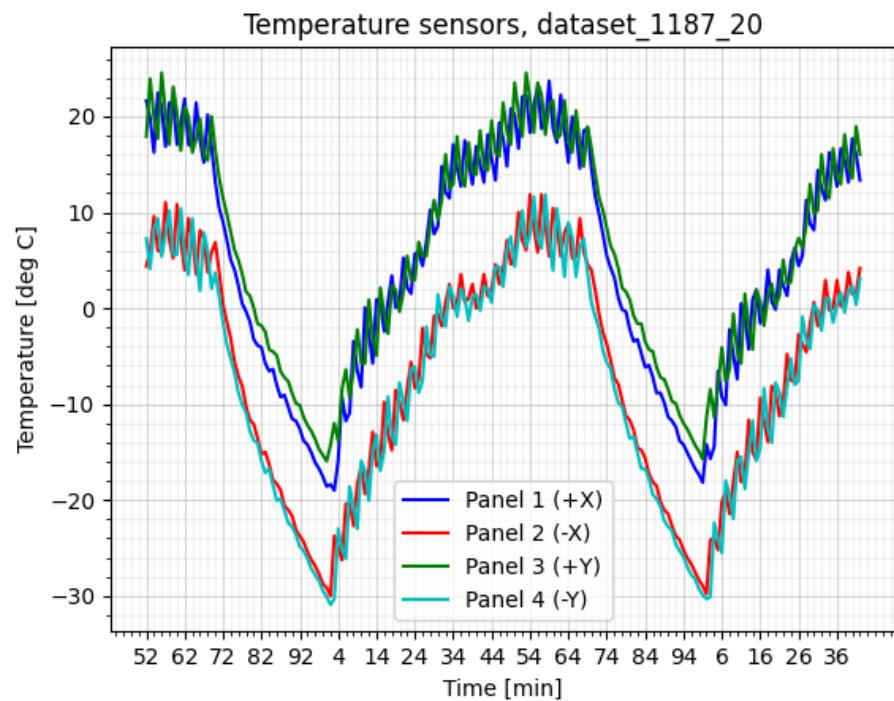
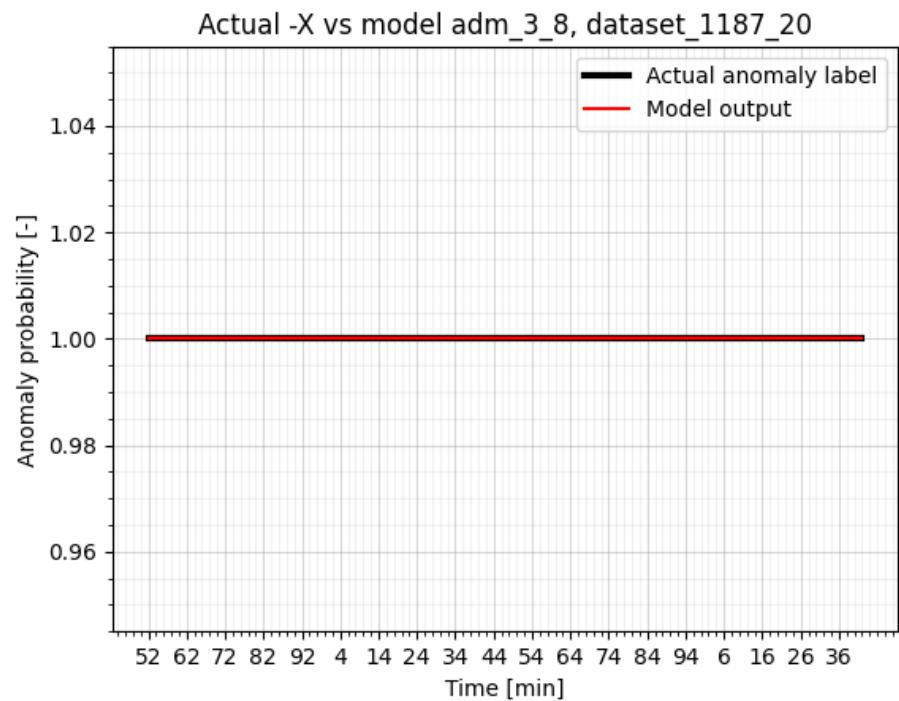
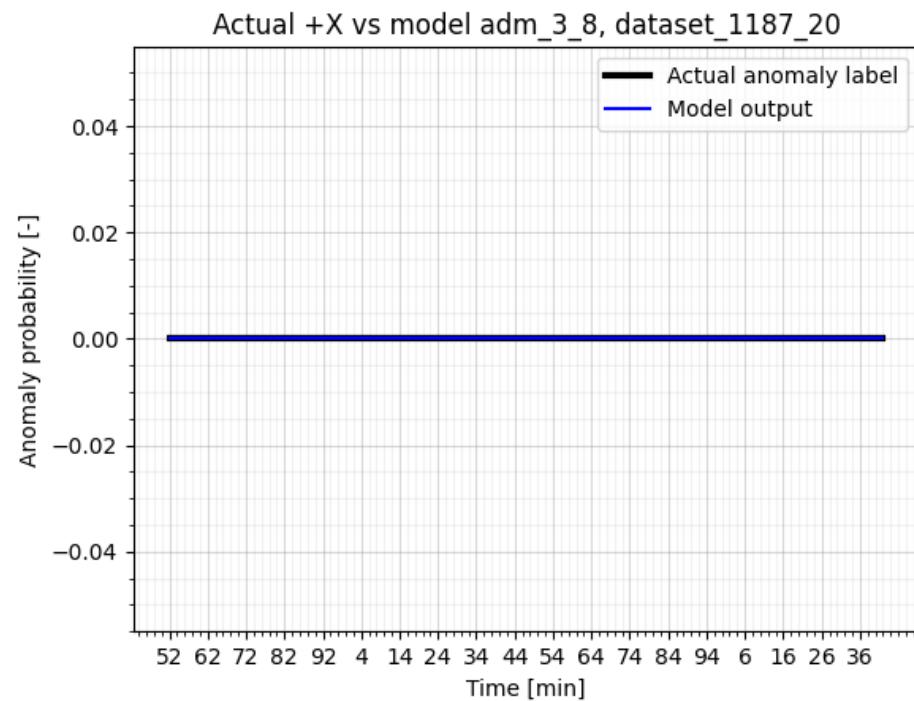


Figure 20: model inferences on dataset_1187_19_mod1.png





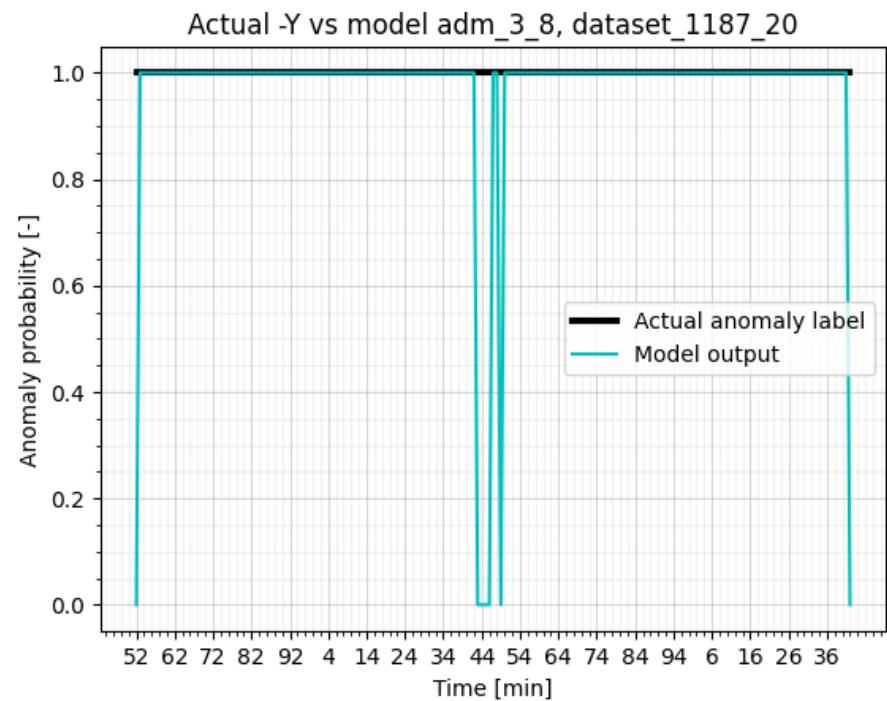
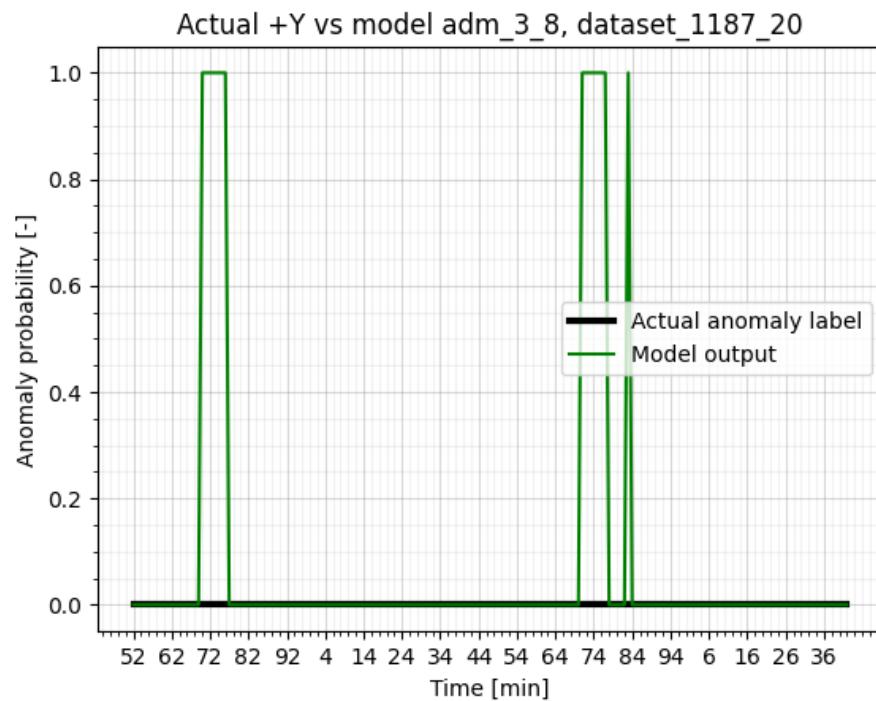
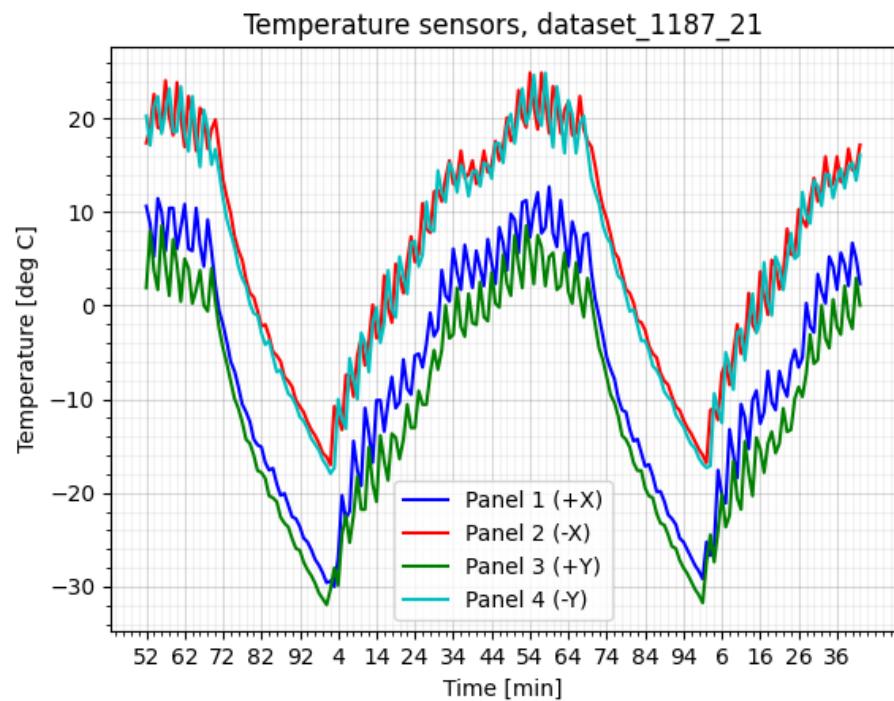
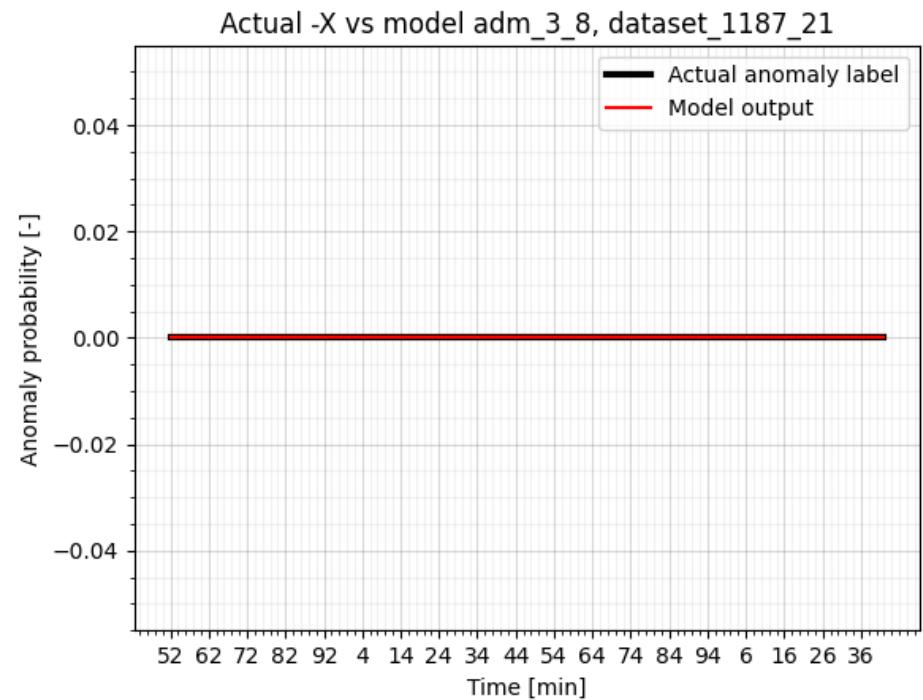
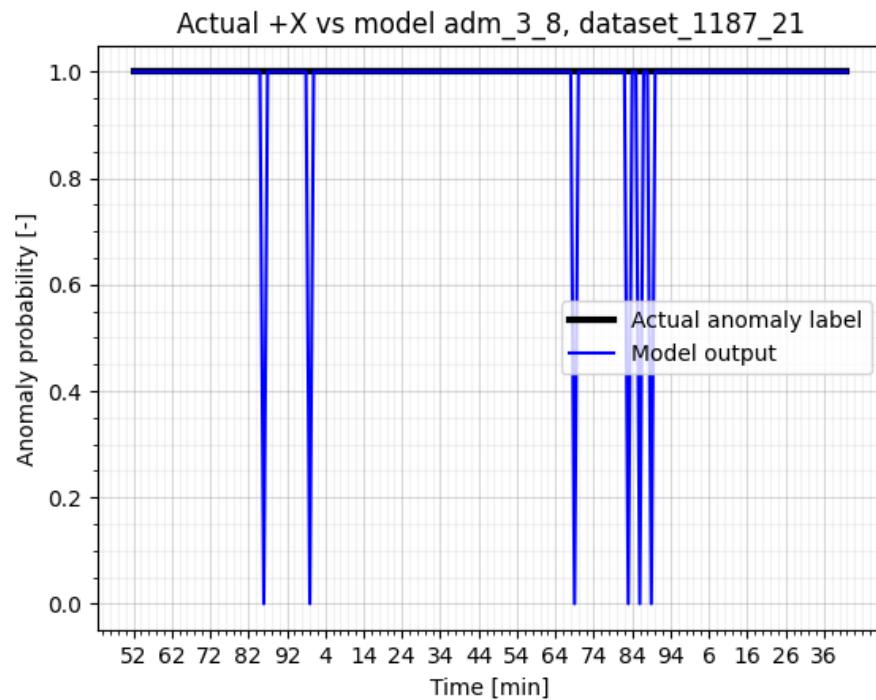


Figure 21: model inferences on dataset_1187_20_mod1.png





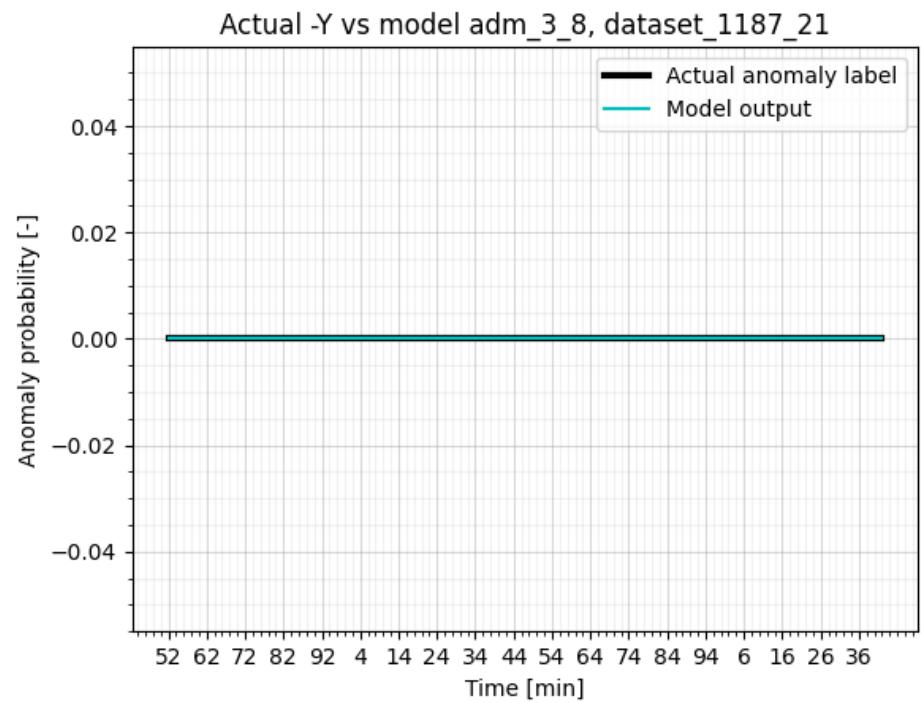
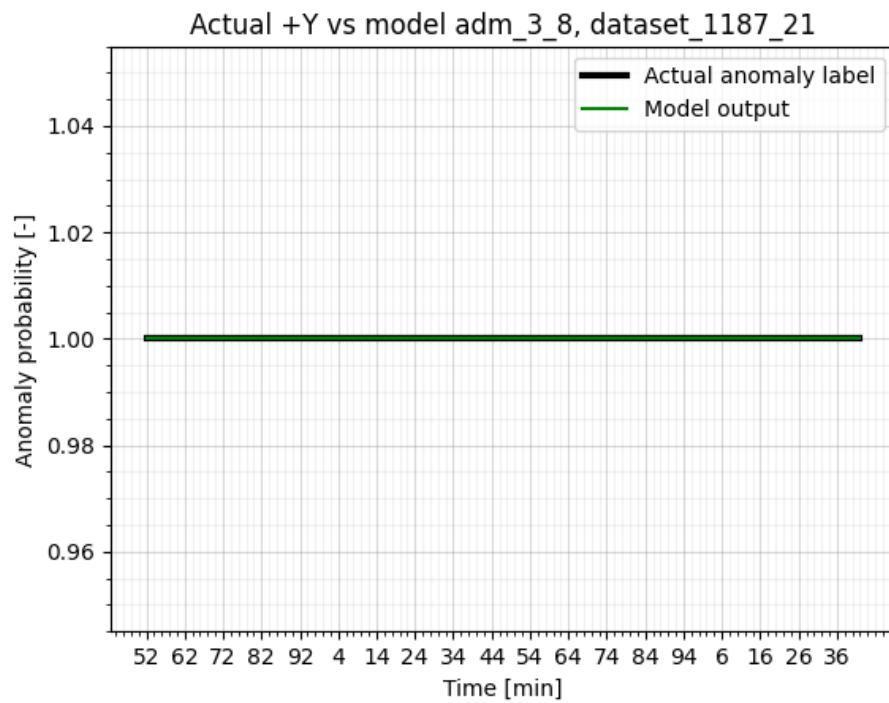
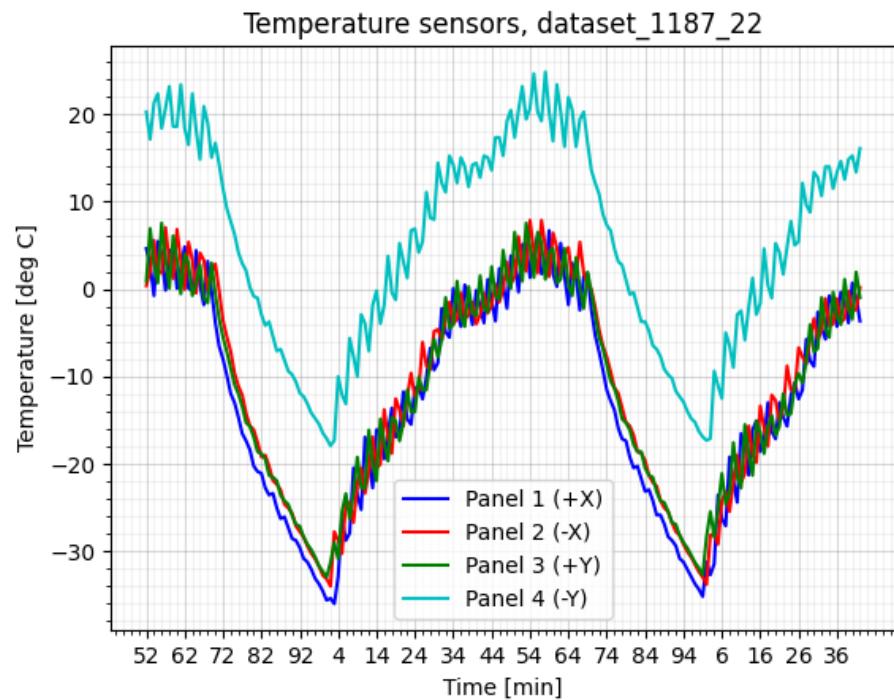
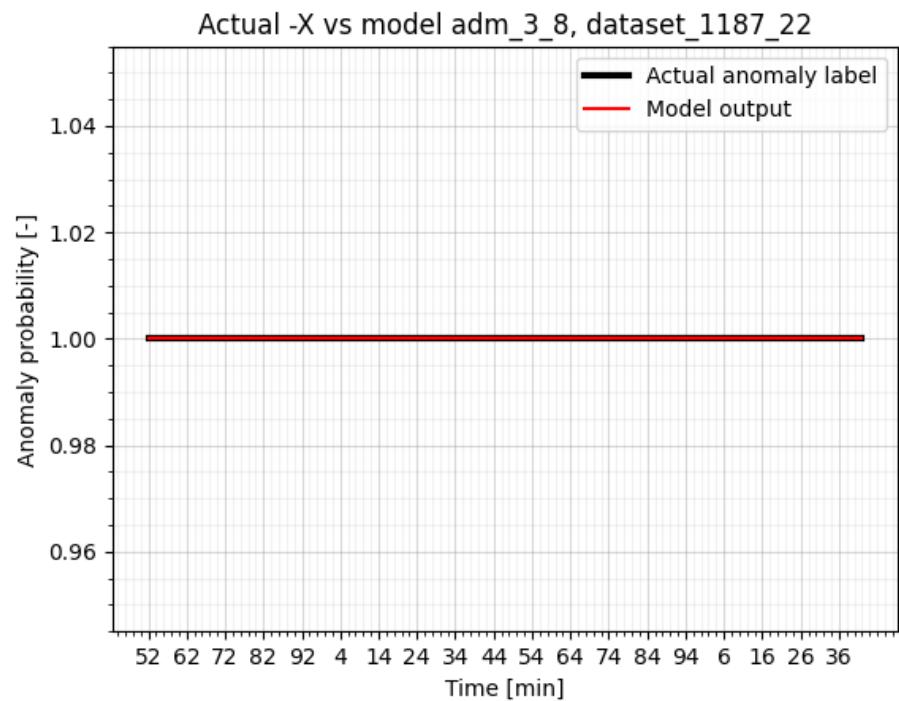
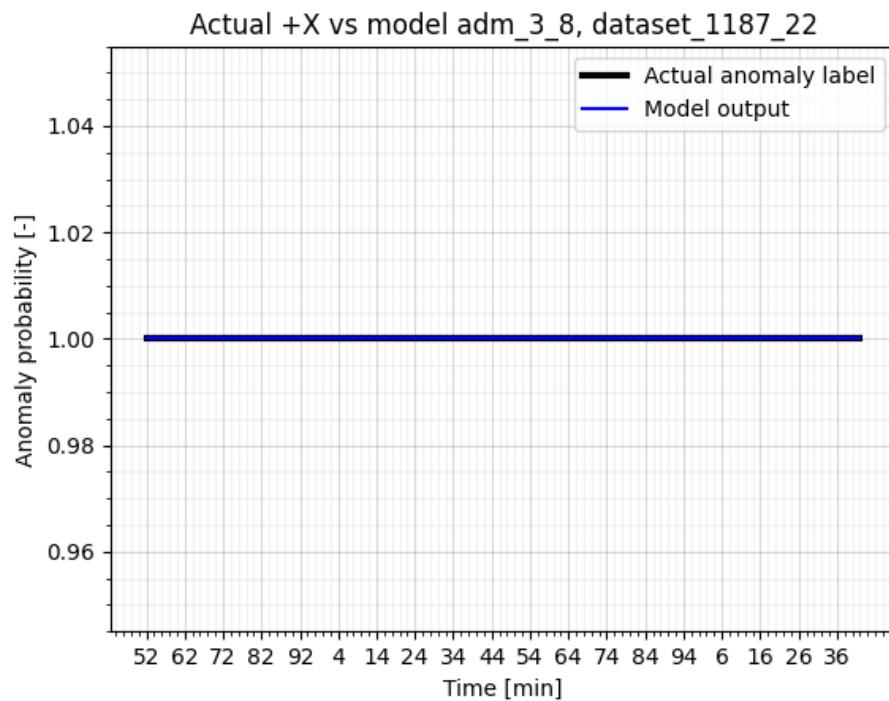


Figure 22: model inferences on dataset_1187_21_mod1.png





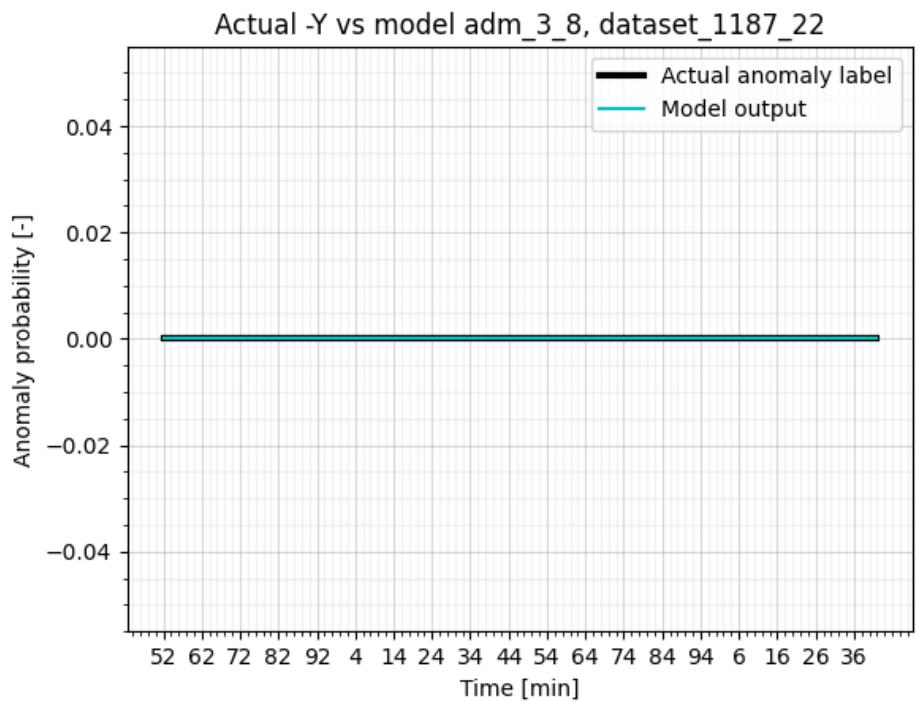
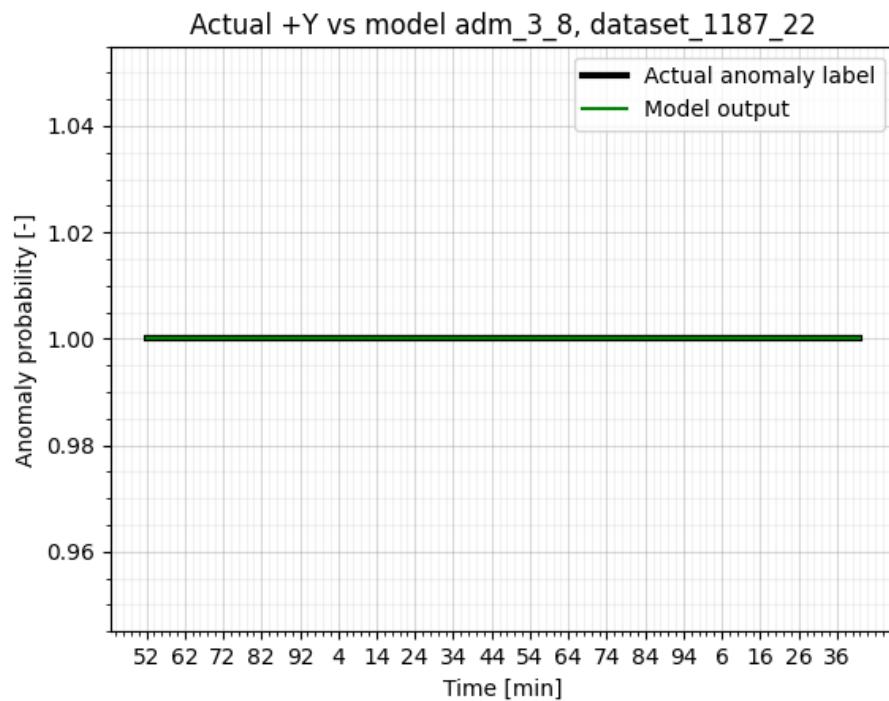
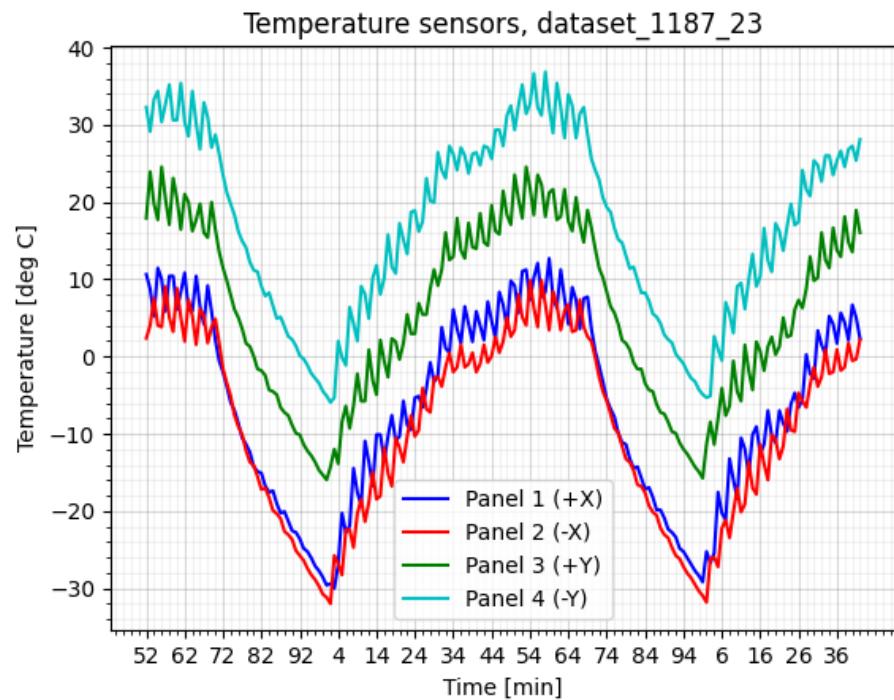
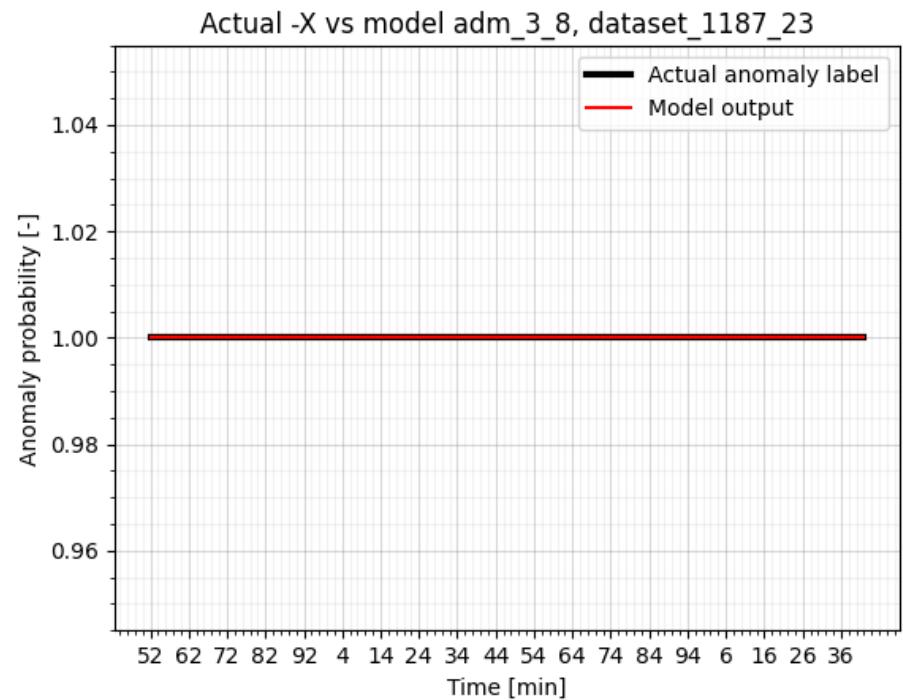
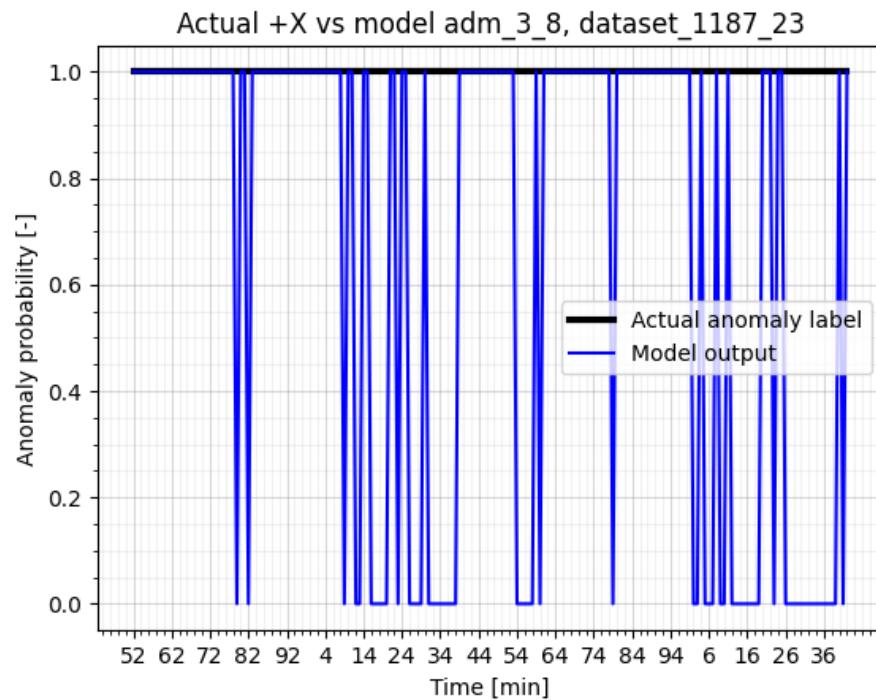


Figure 23: model inferences on dataset_1187_22_mod1.png





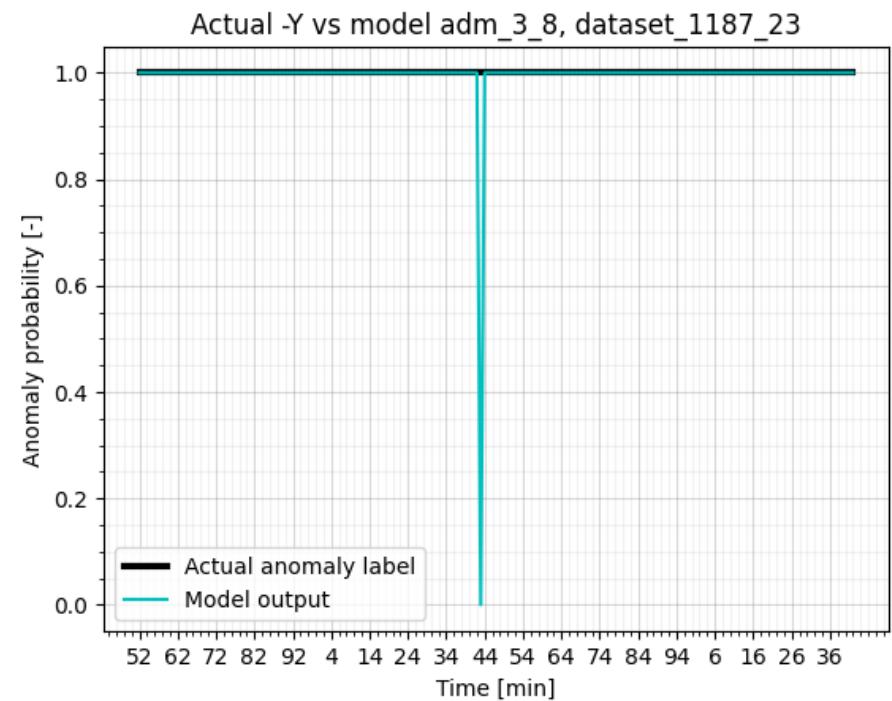
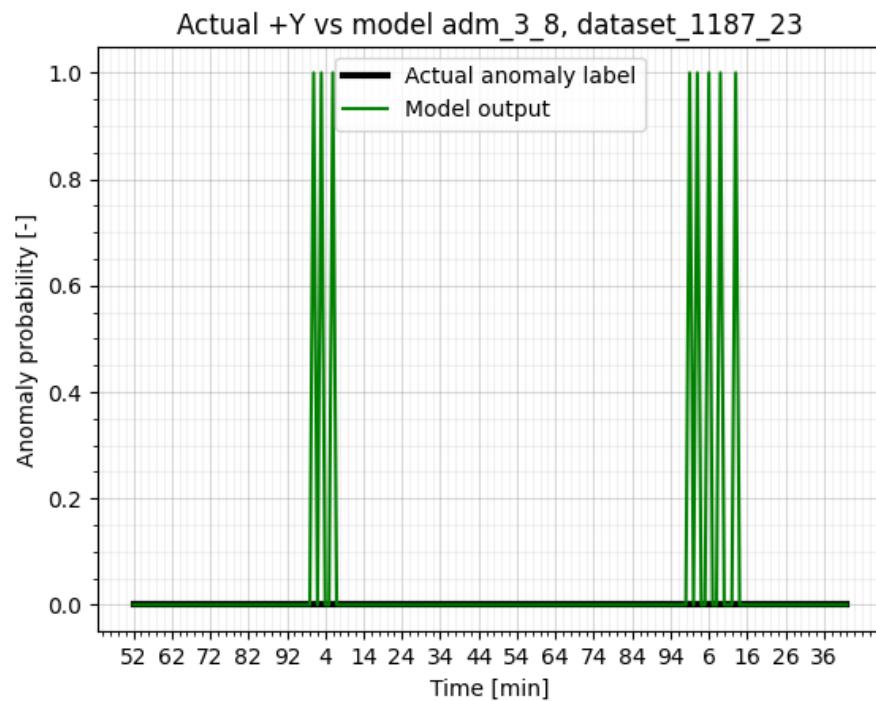
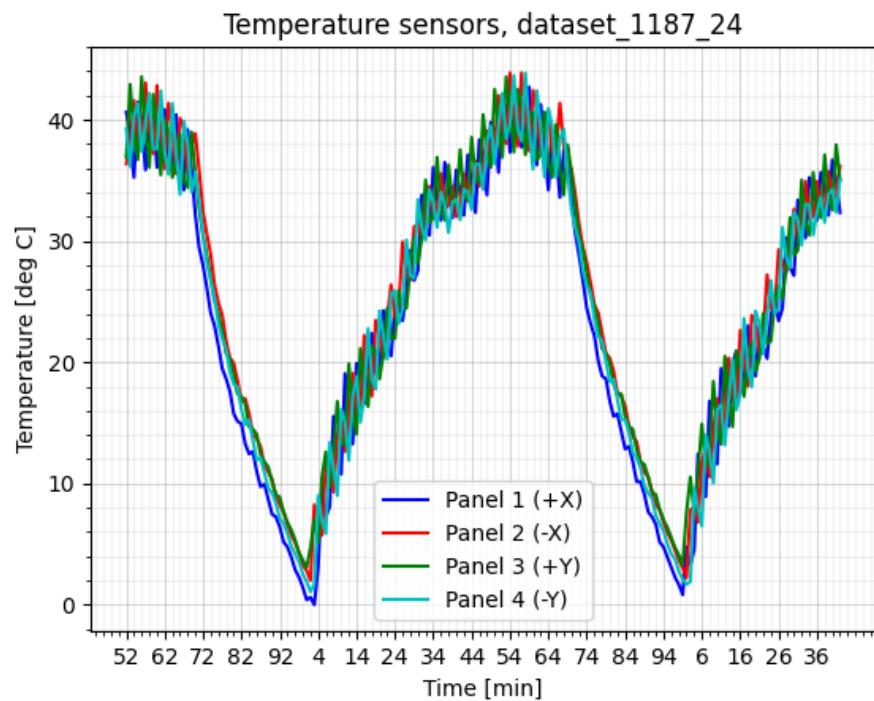
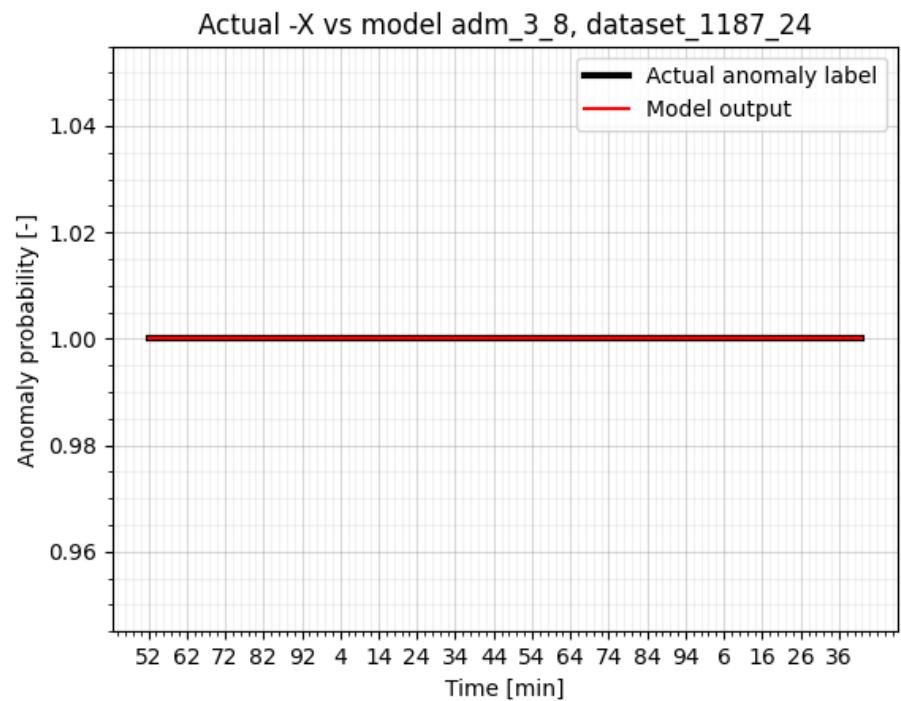
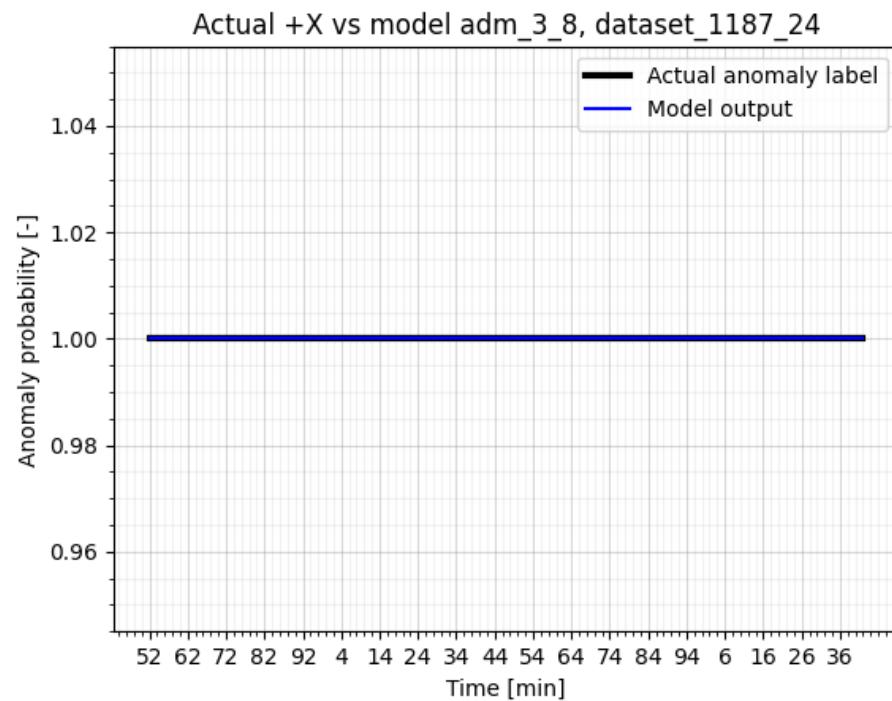


Figure 24: model inferences on dataset_1187_23_mod1.png





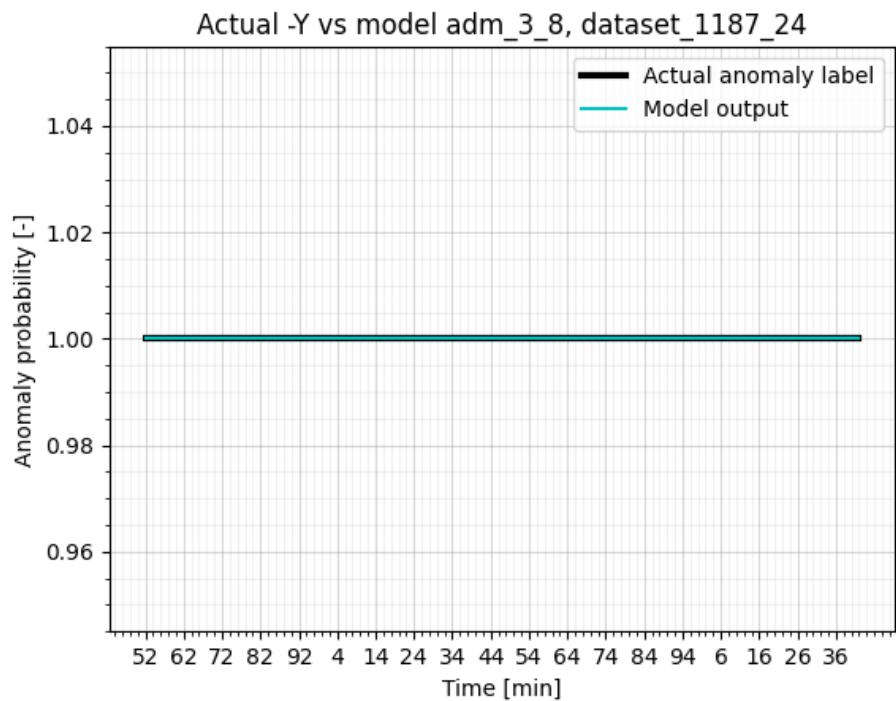
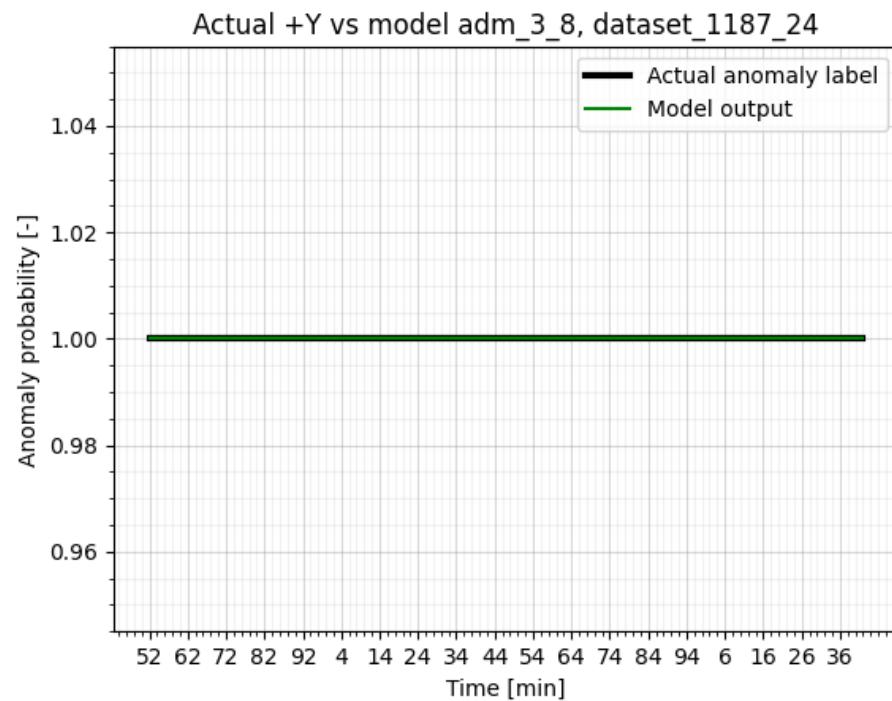
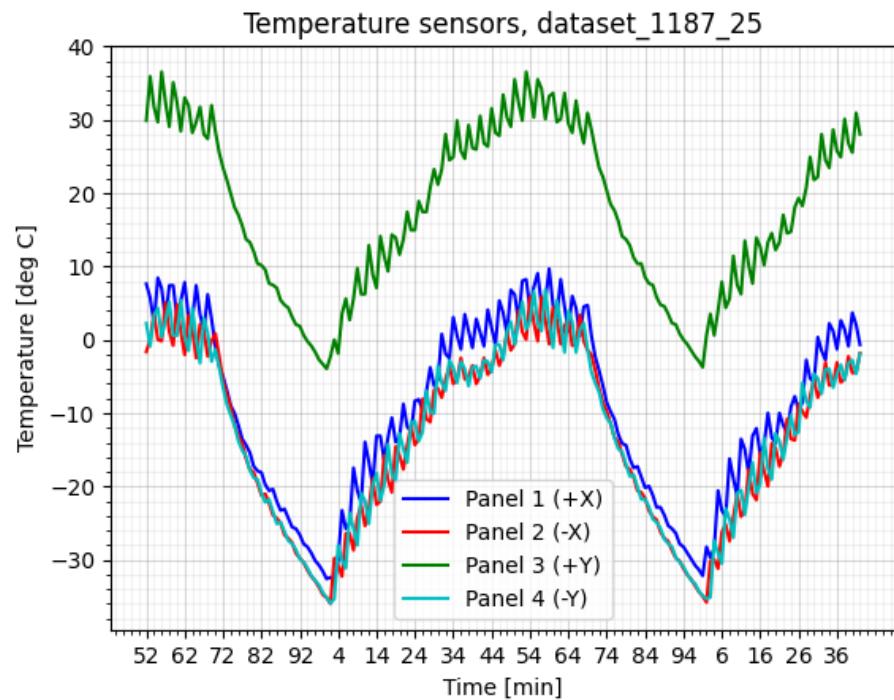
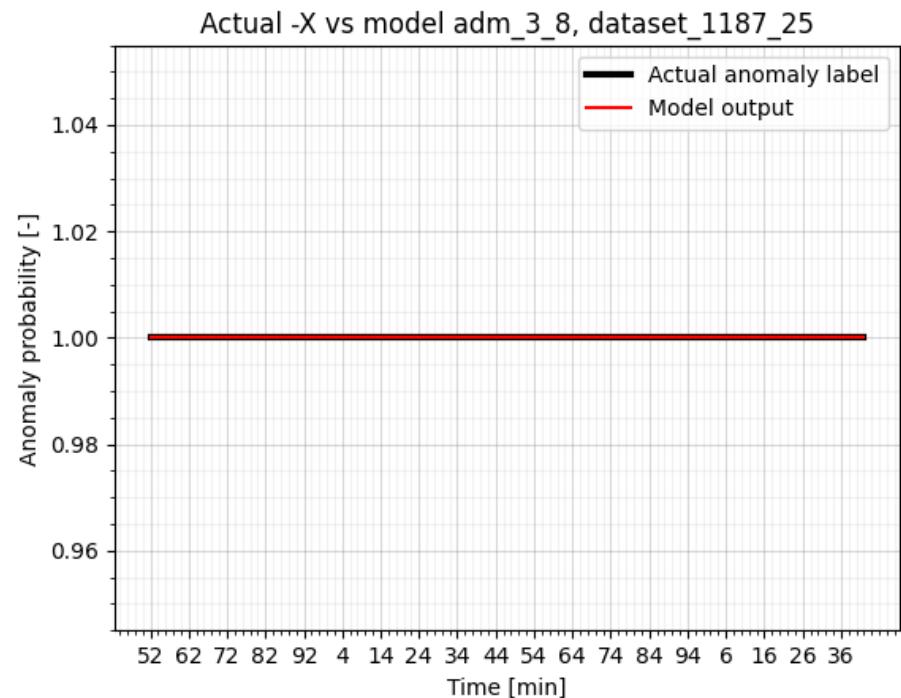
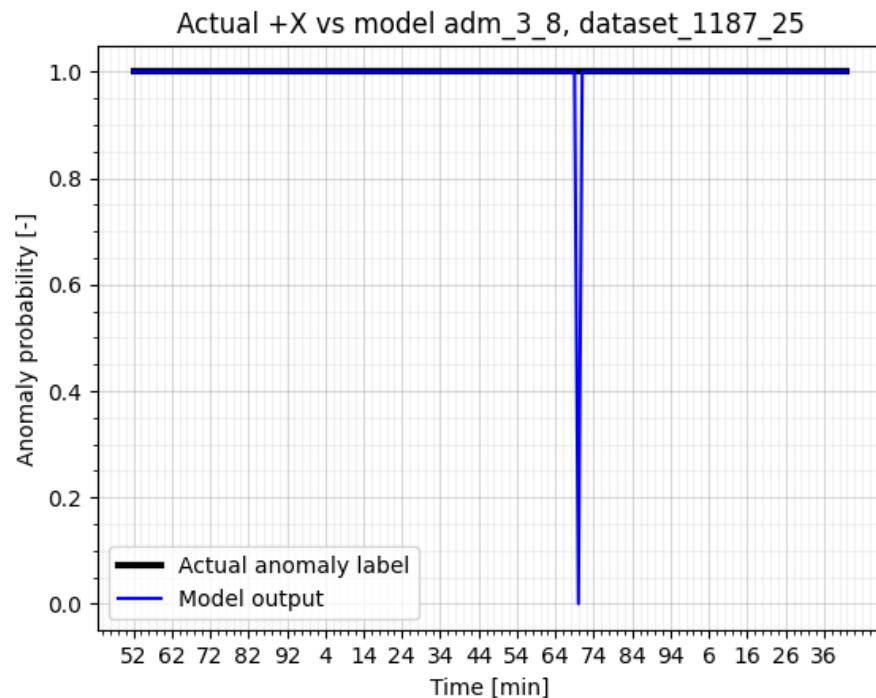


Figure 25: model inferences on dataset_1187_24_mod1.png





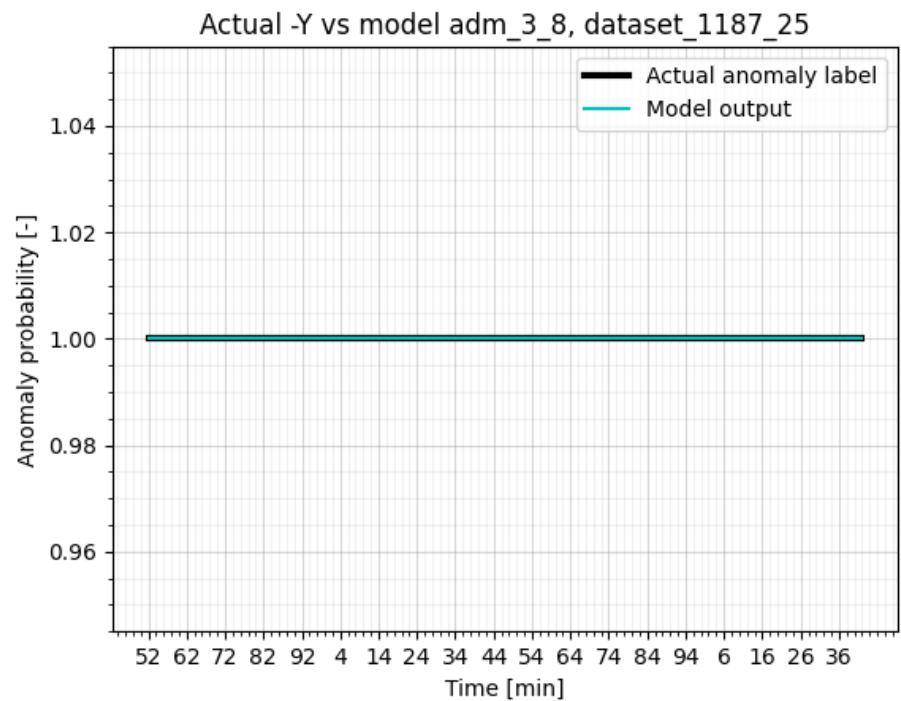
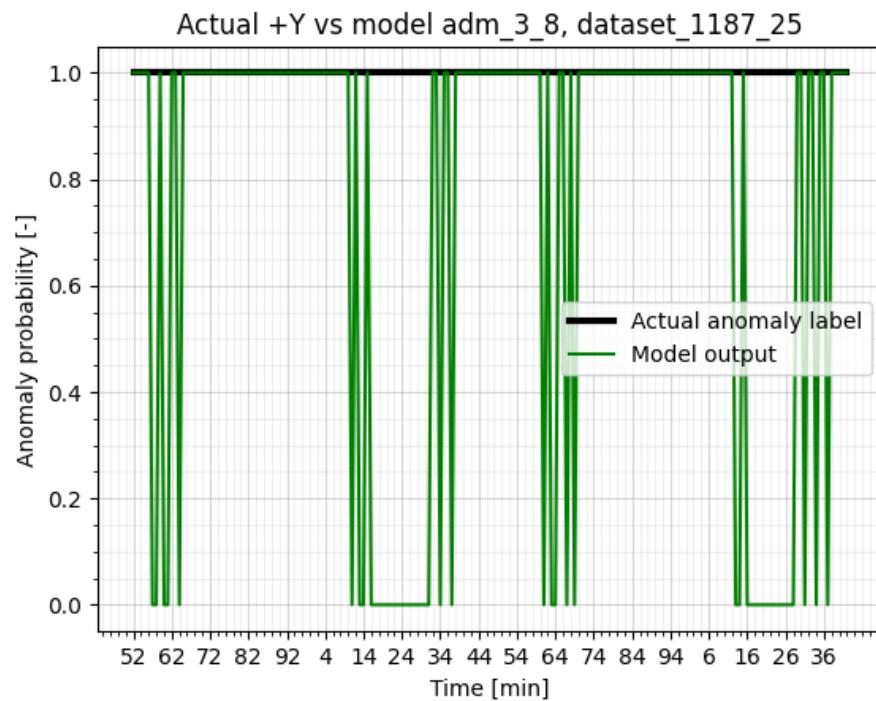
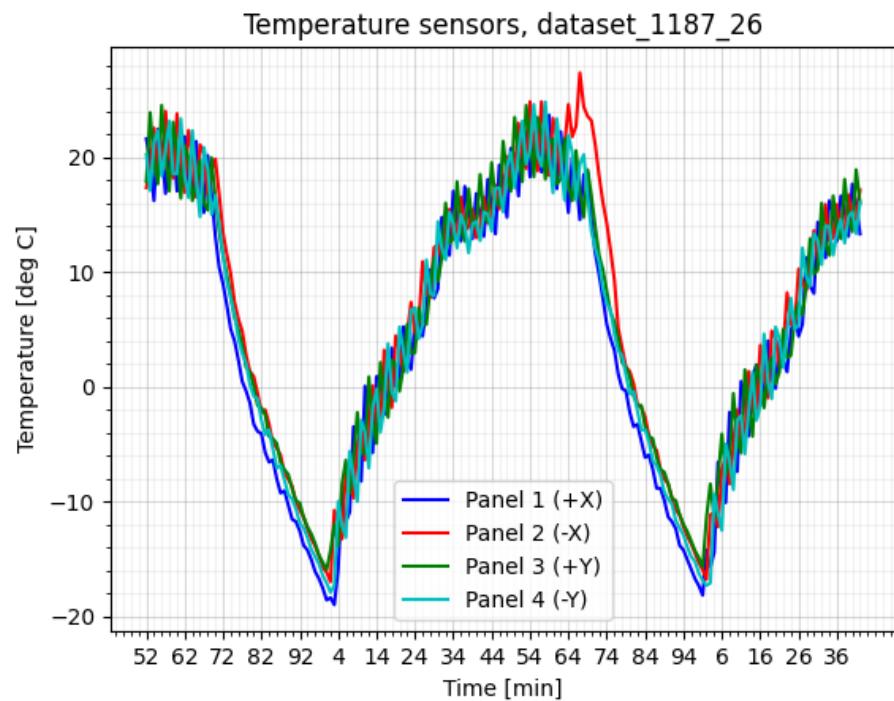
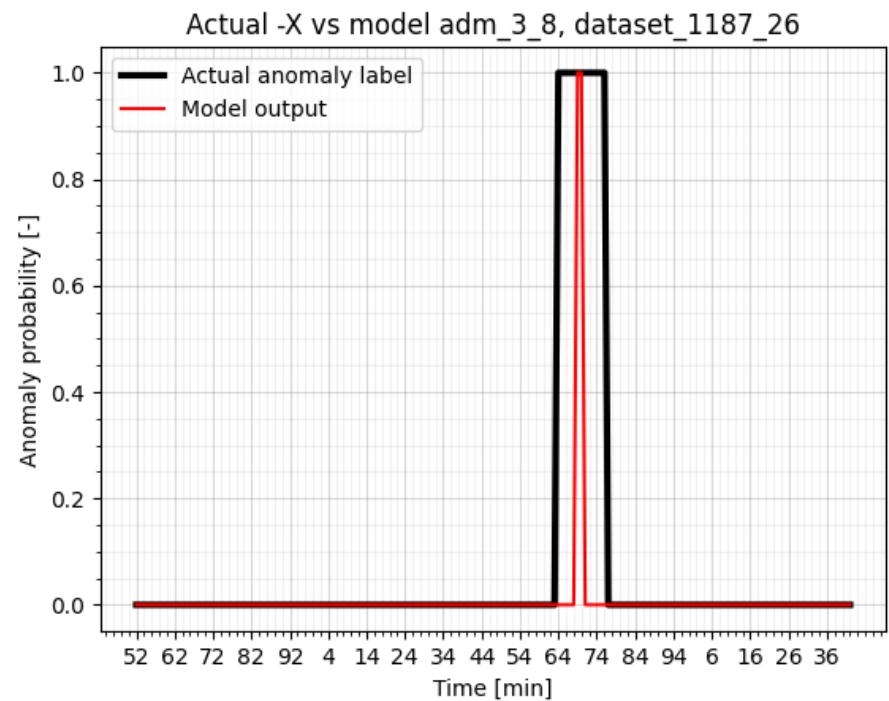
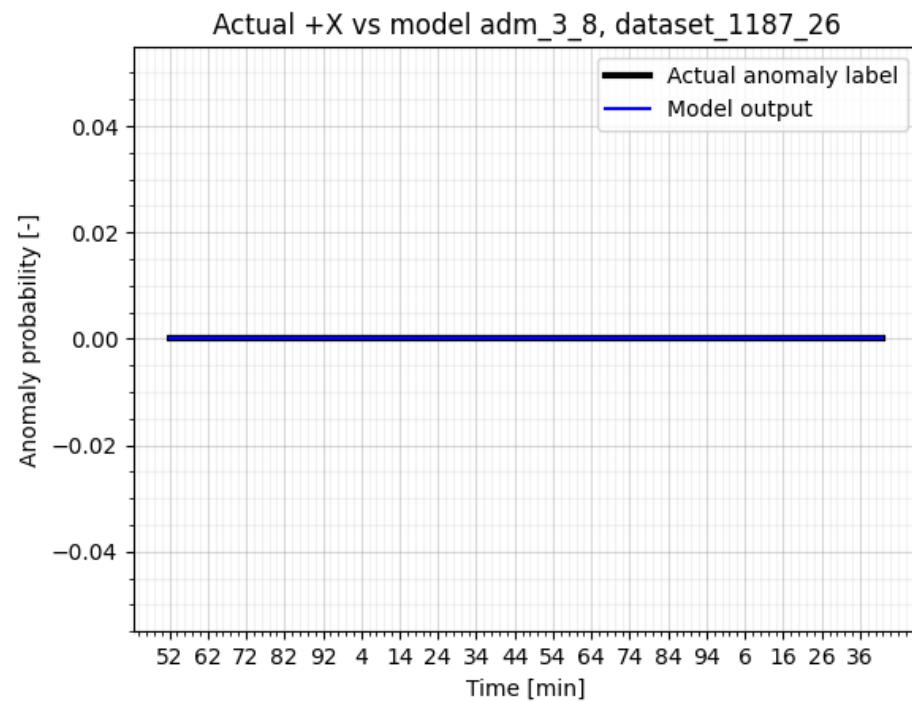


Figure 26: model inferences on dataset_1187_25_mod1.png





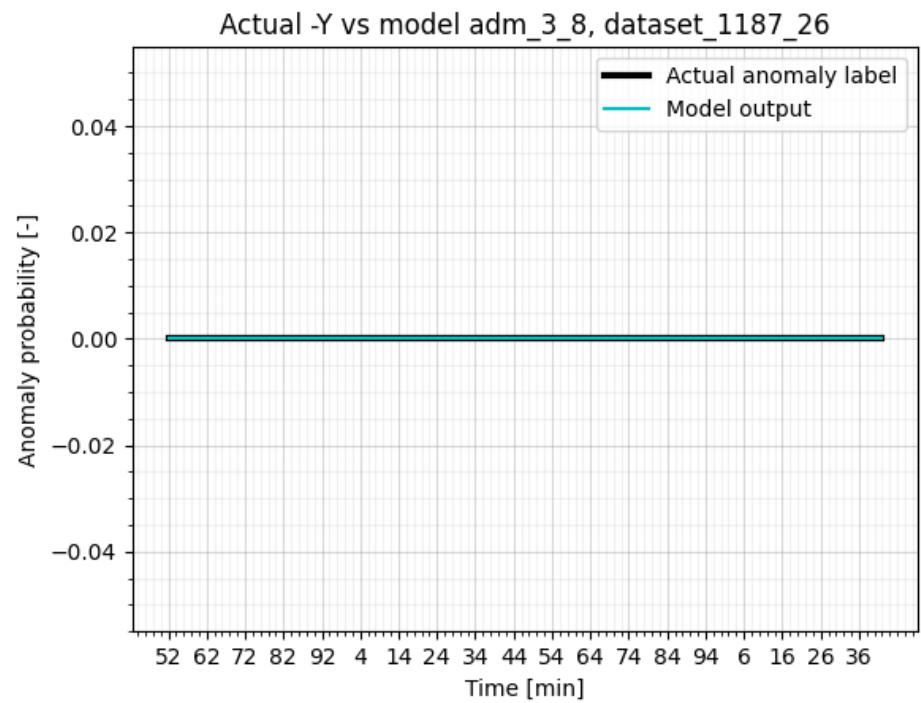
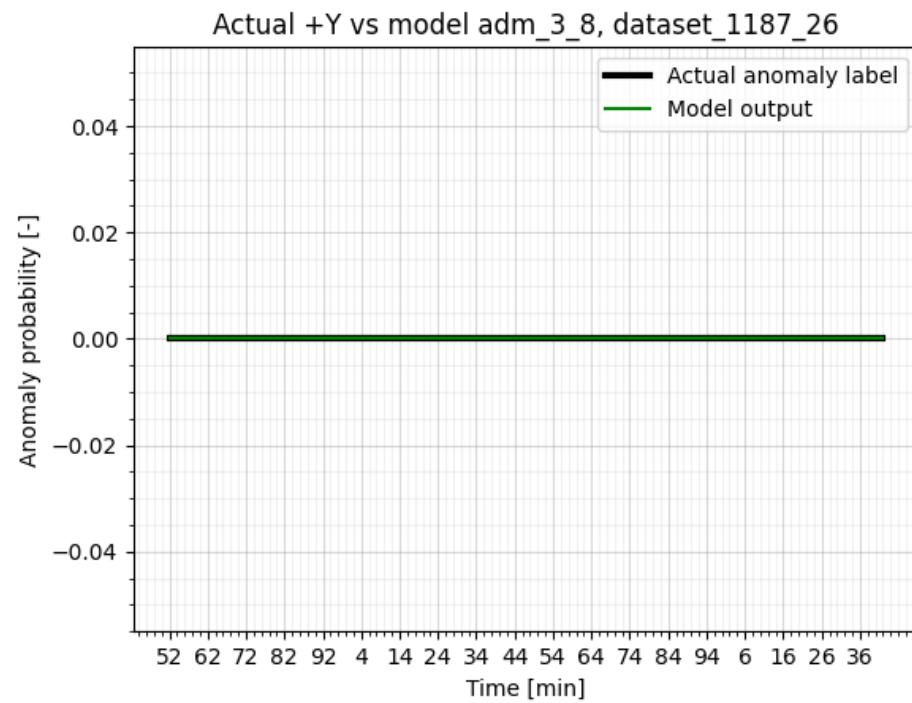
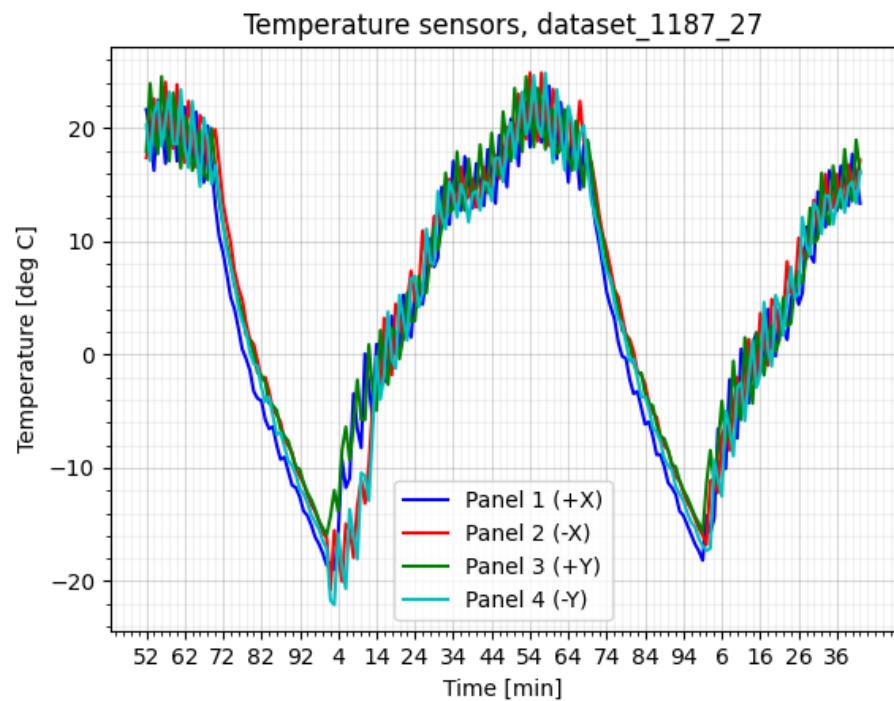
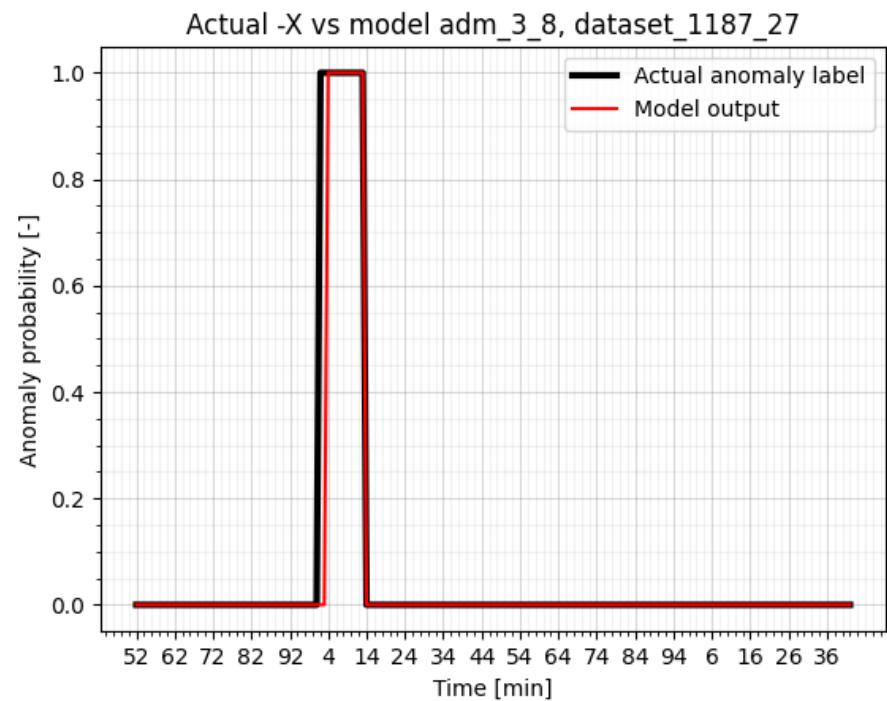
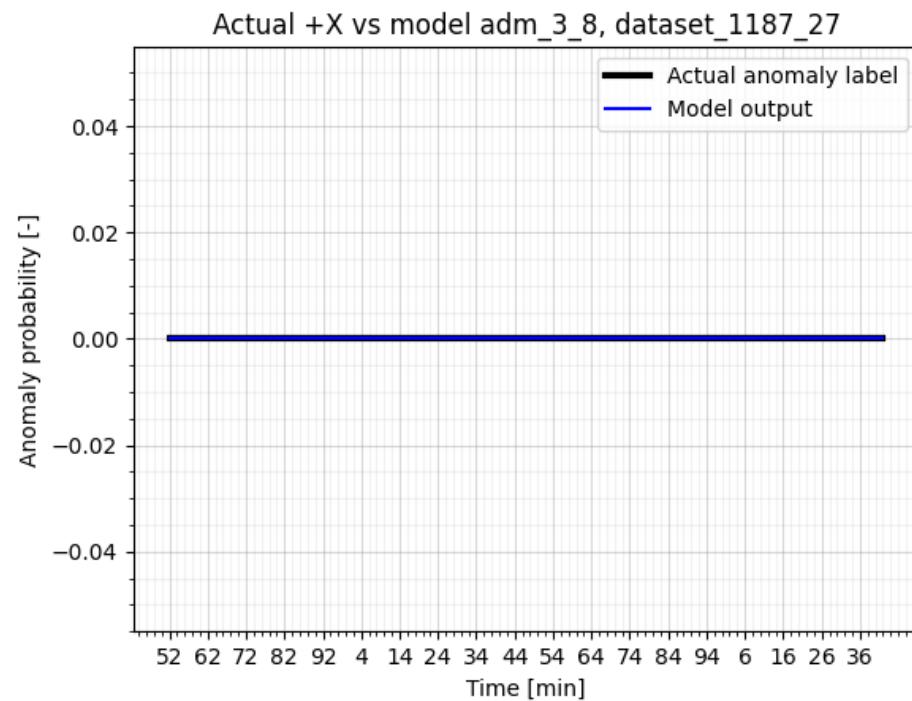


Figure 27: model inferences on dataset_1187_26_mod1.png





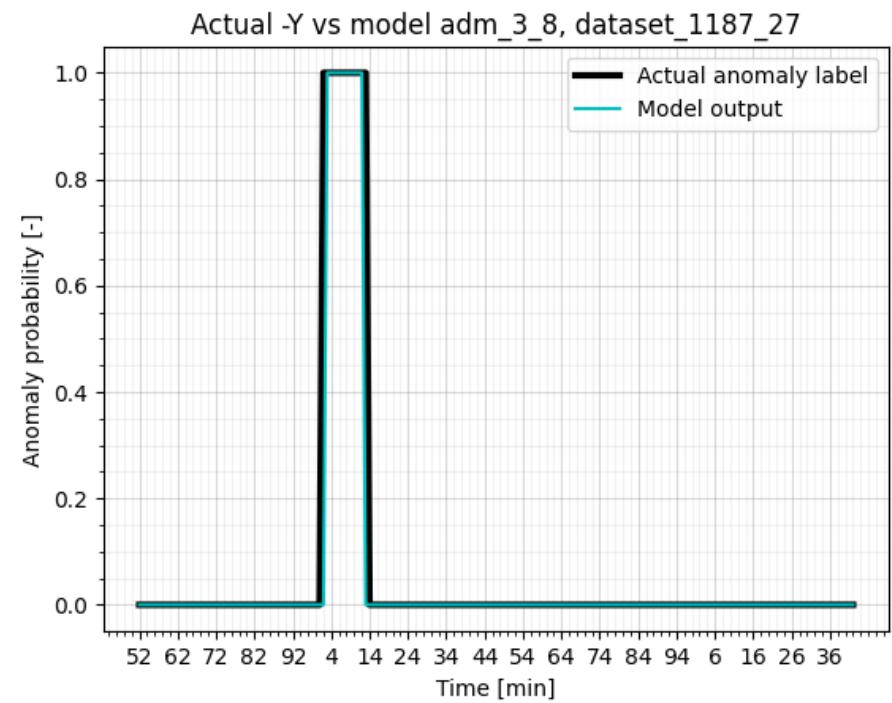
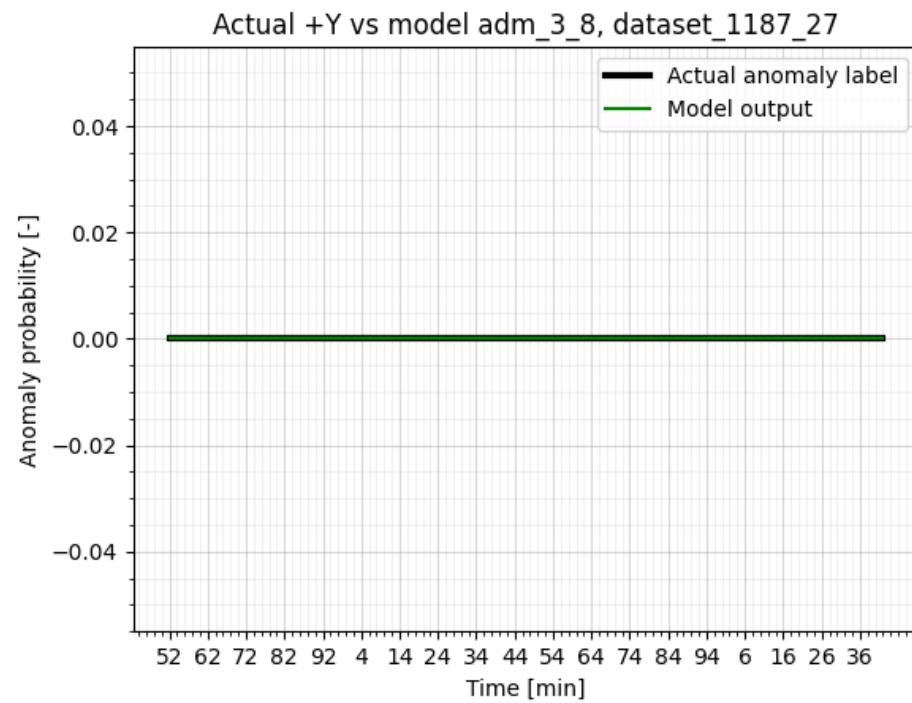
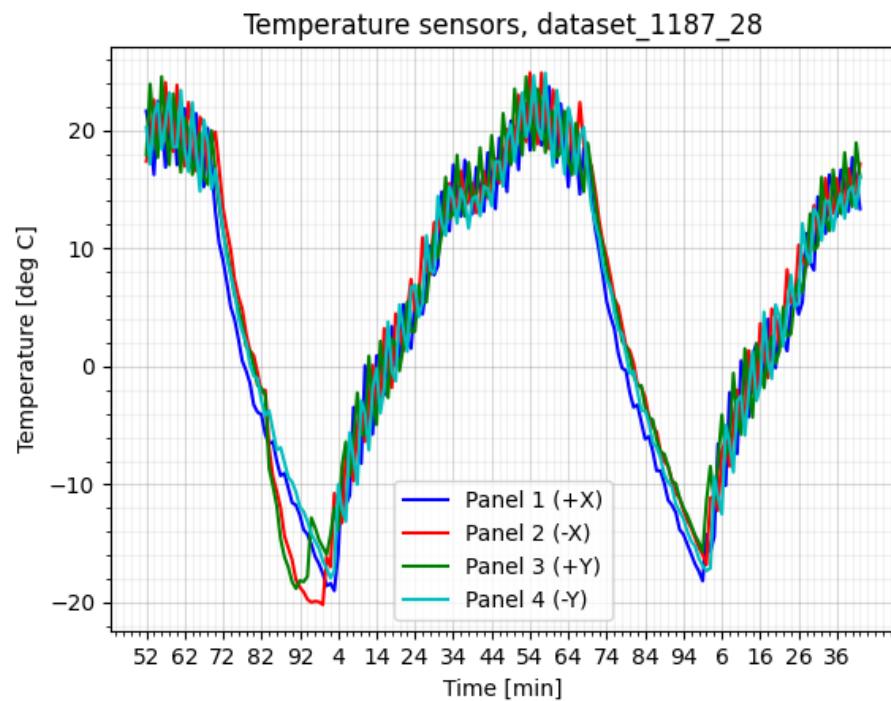
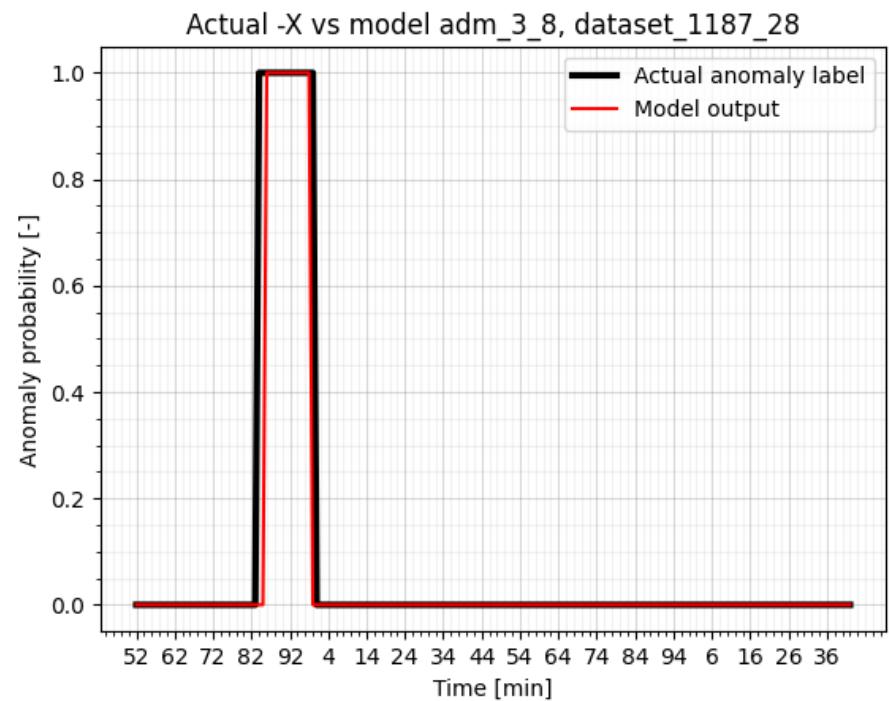
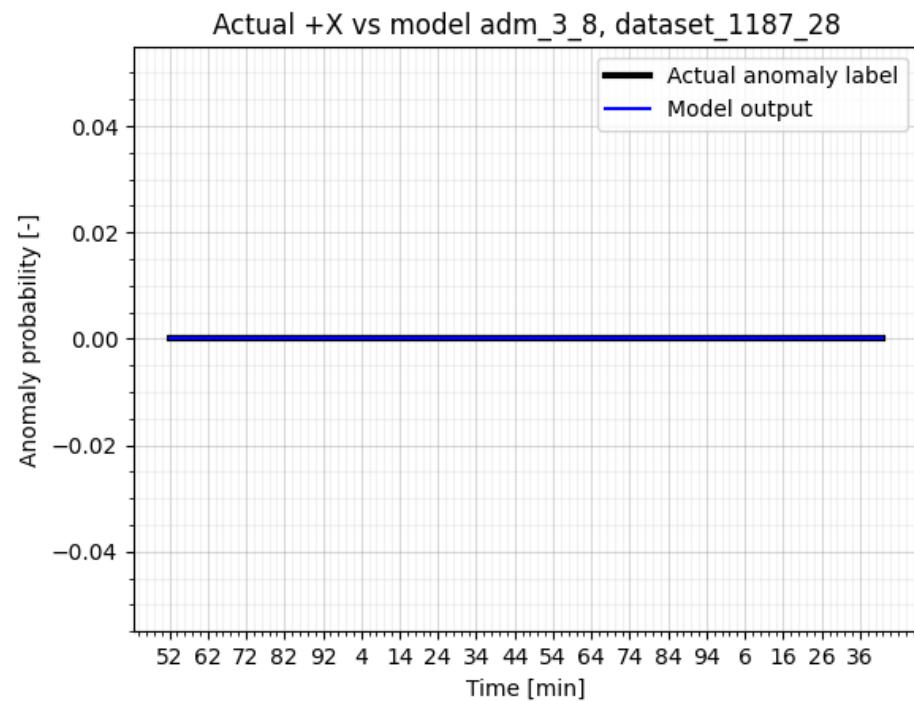


Figure 28: model inferences on dataset_1187_27_mod1.png





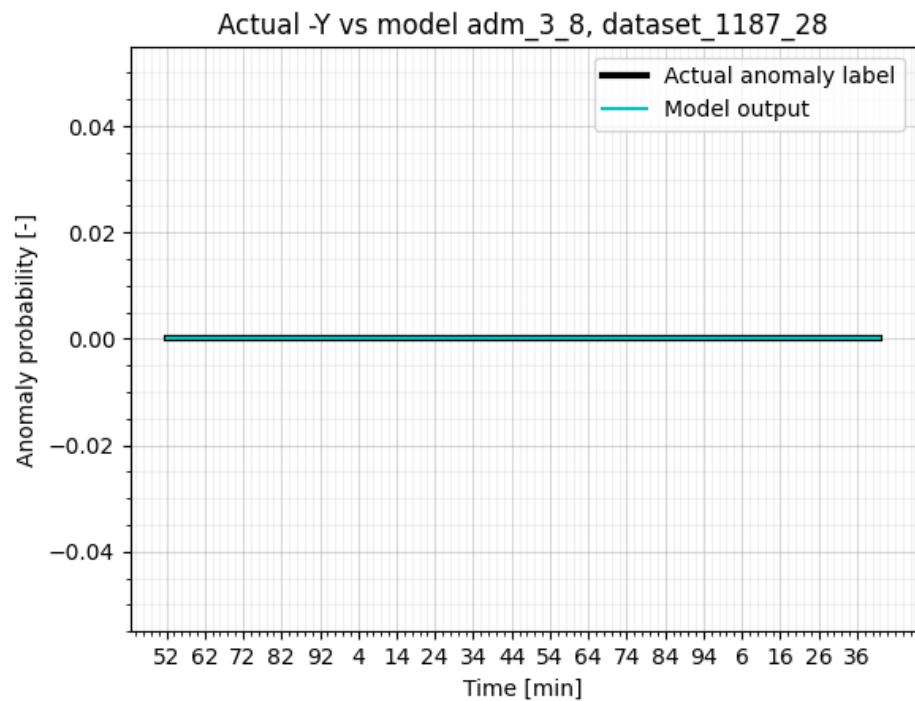
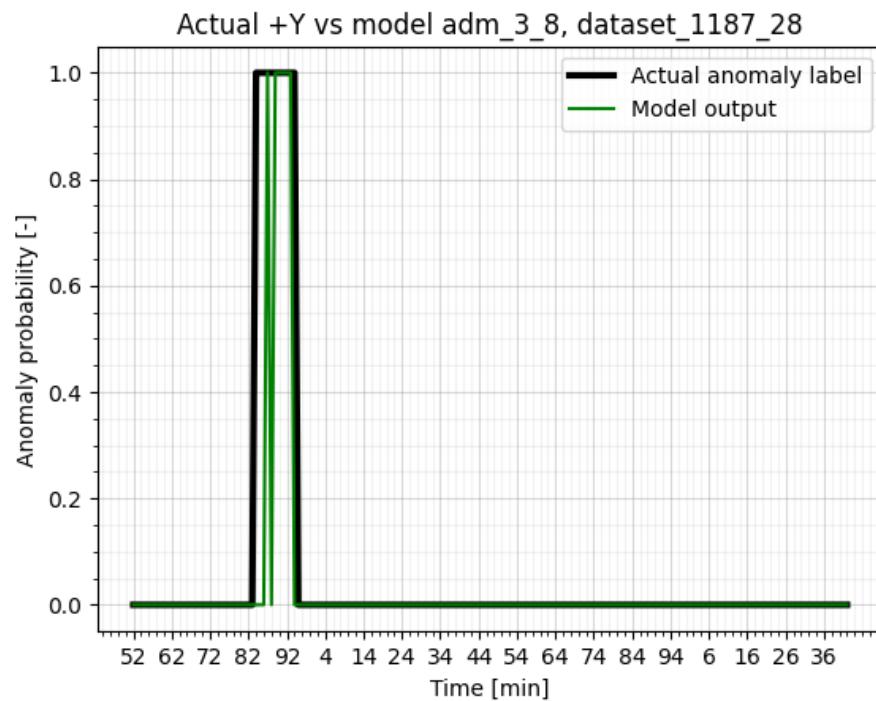
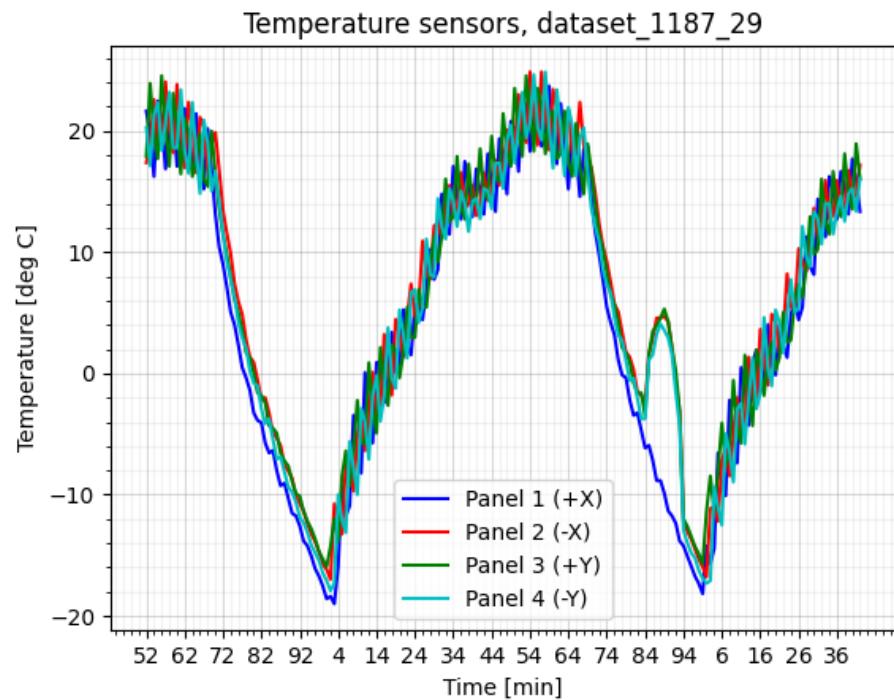
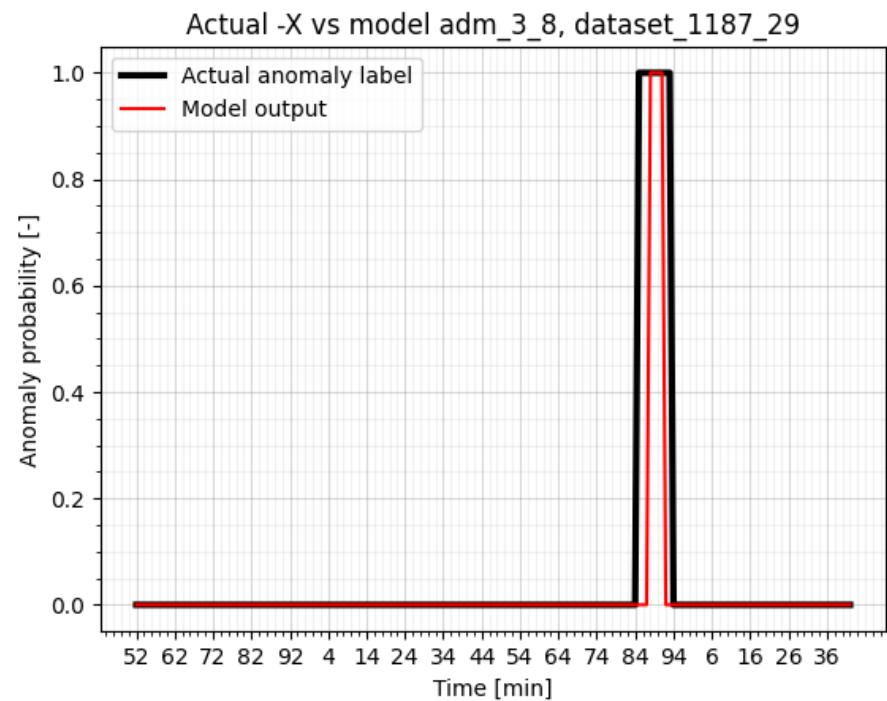
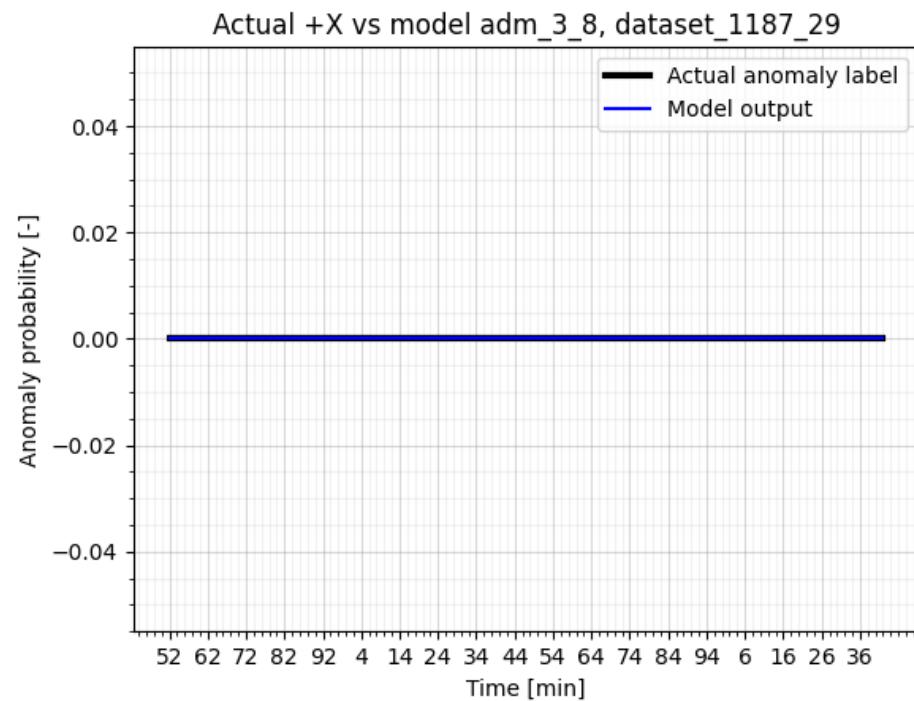


Figure 29: model inferences on dataset_1187_28_mod1.png





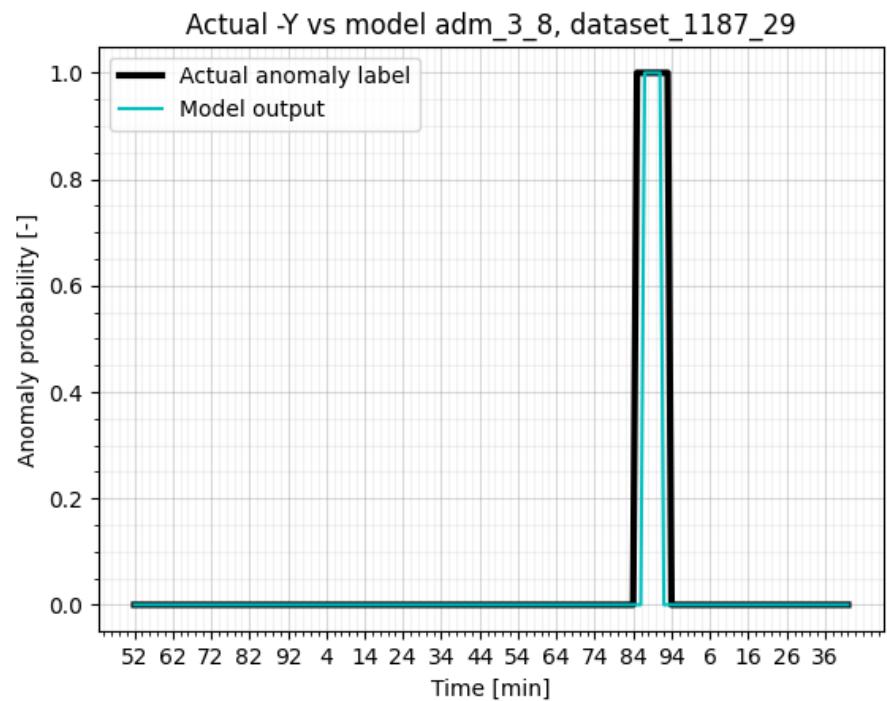
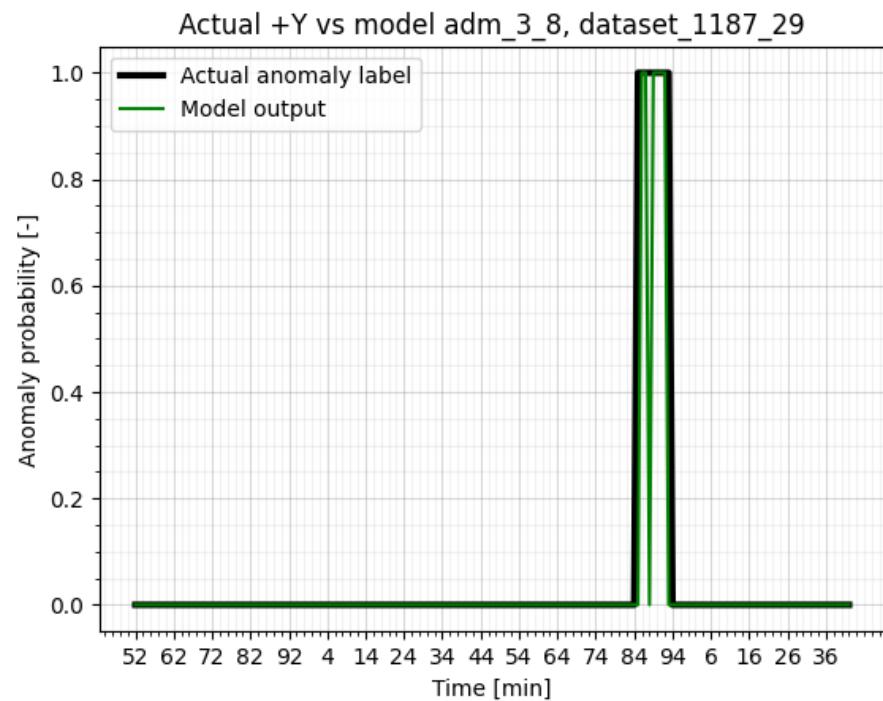
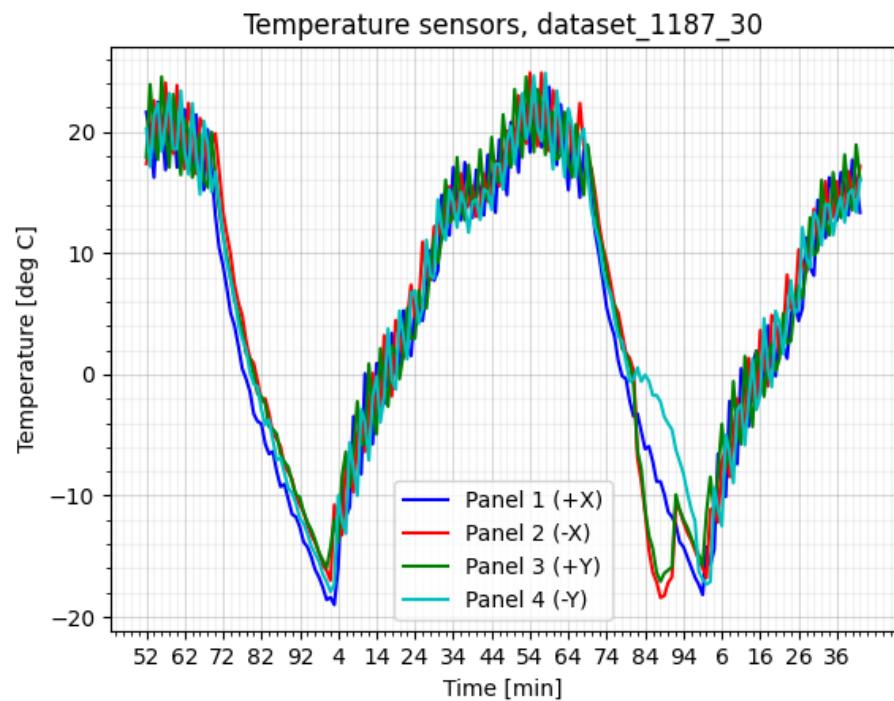
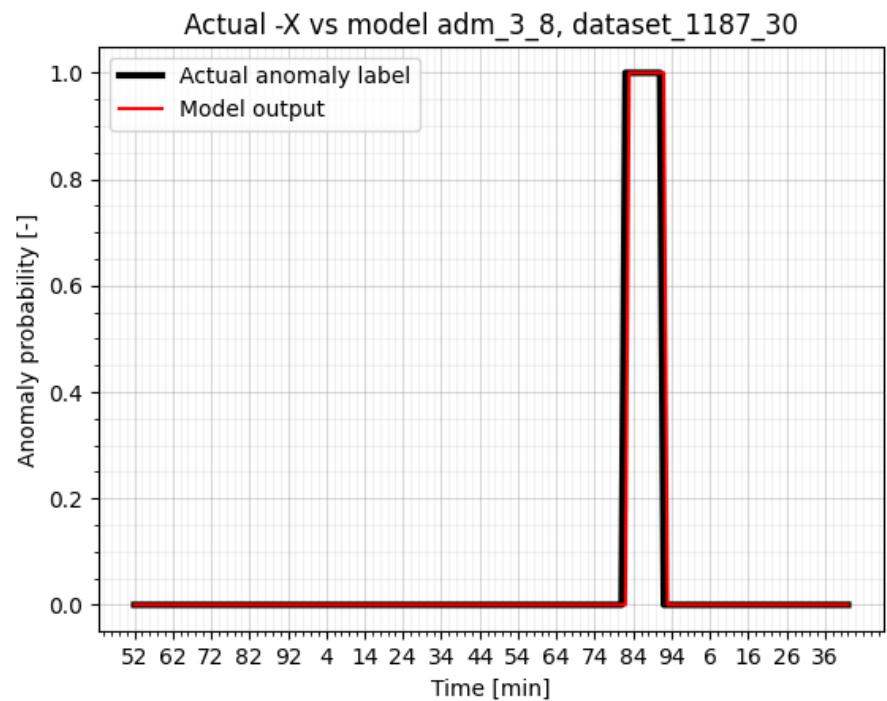
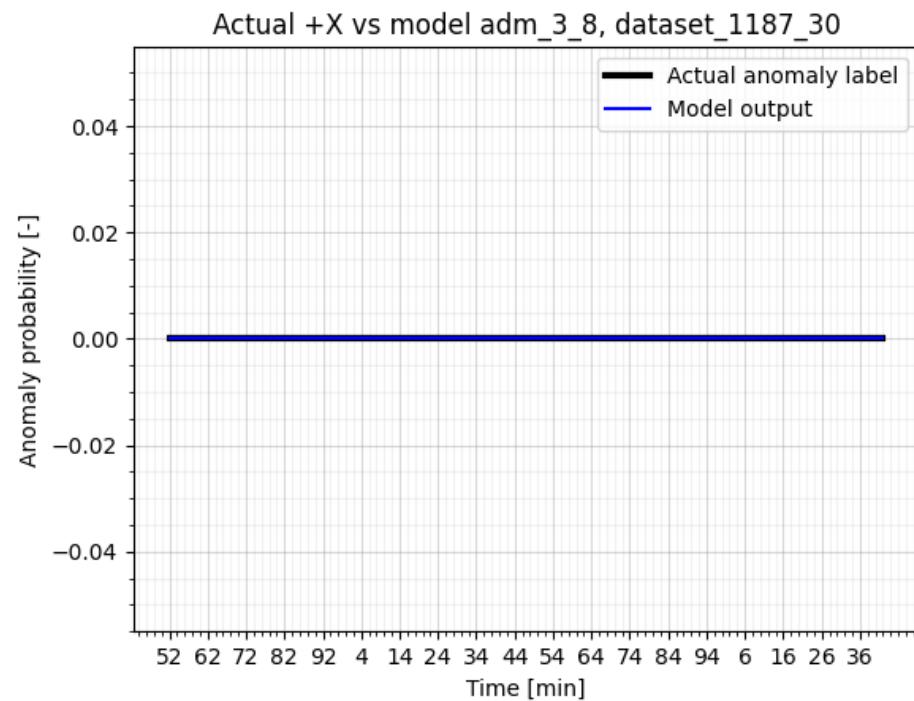


Figure 30: model inferences on dataset_1187_29_mod1.png





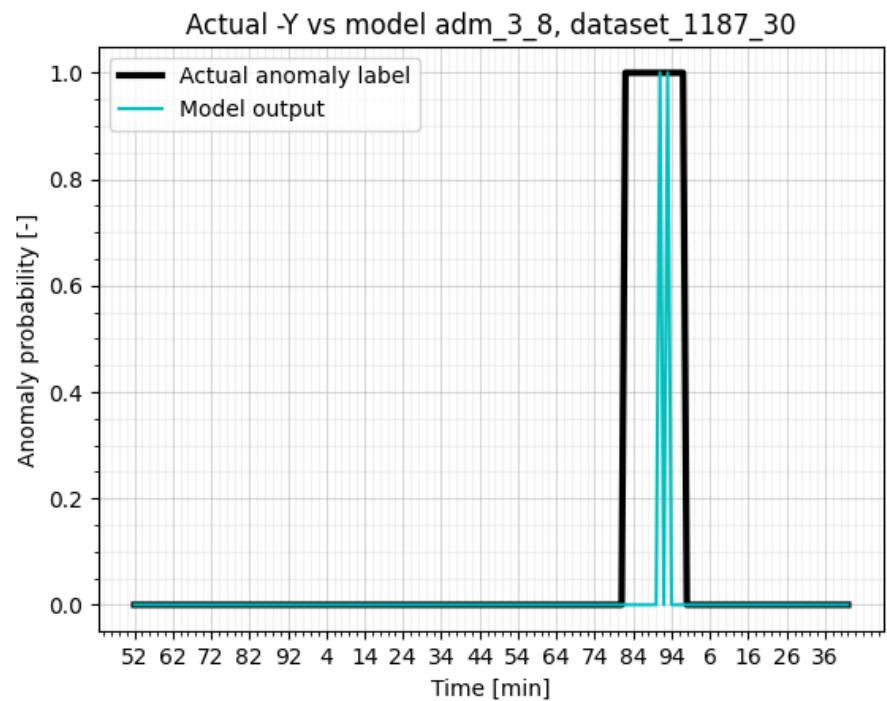
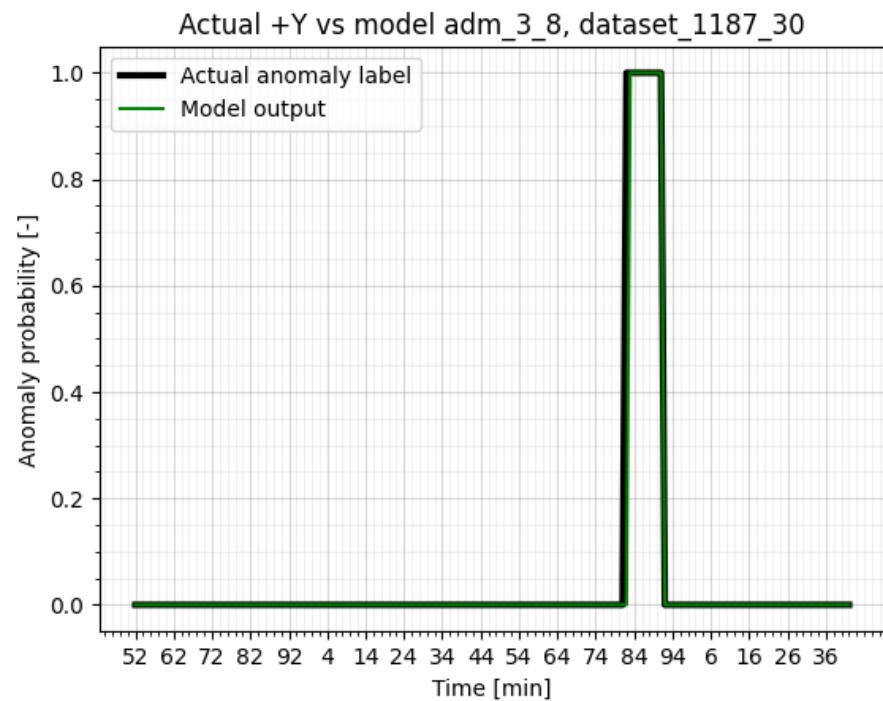
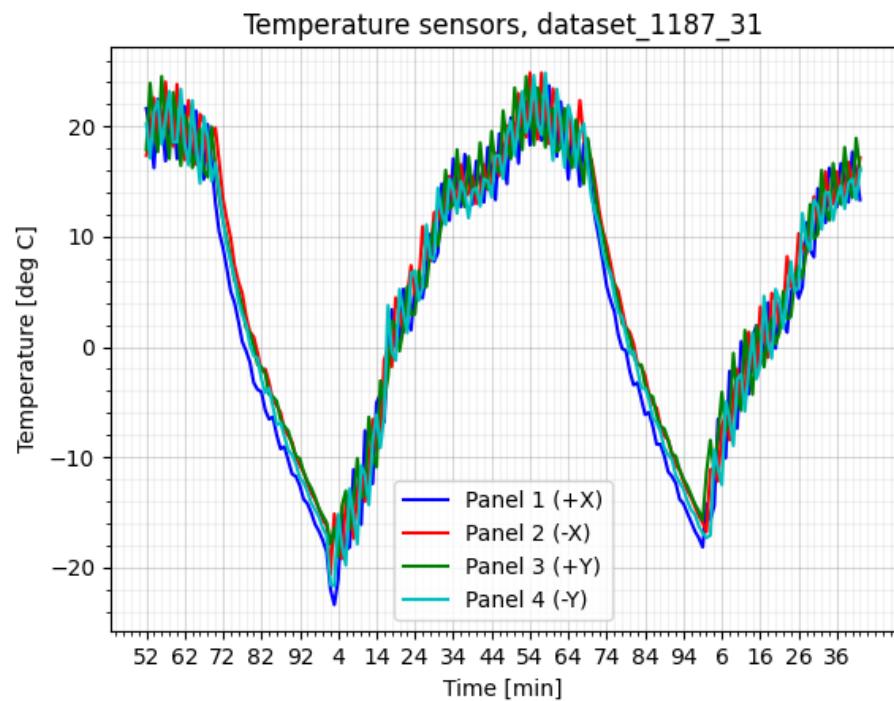
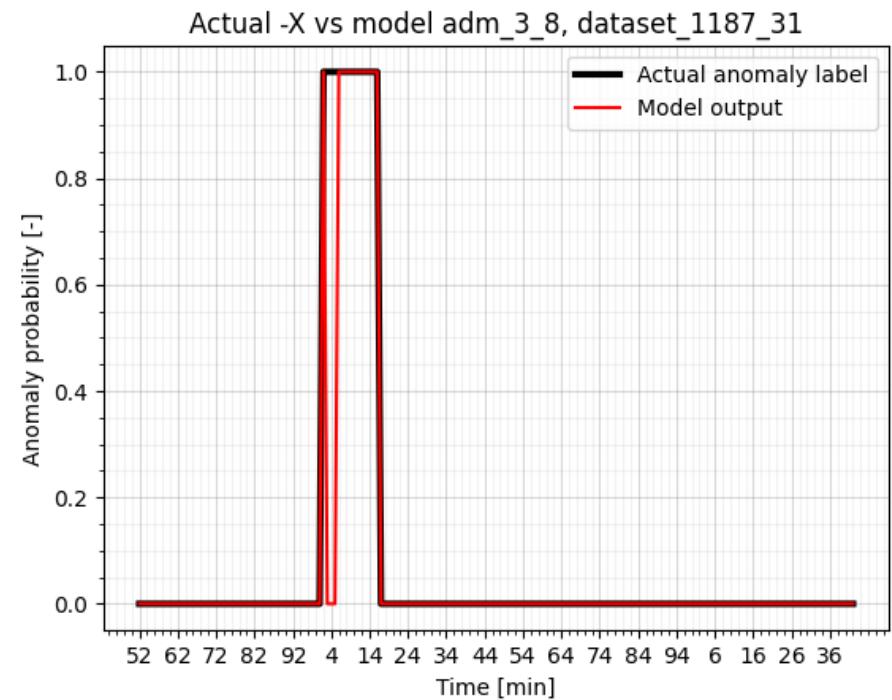
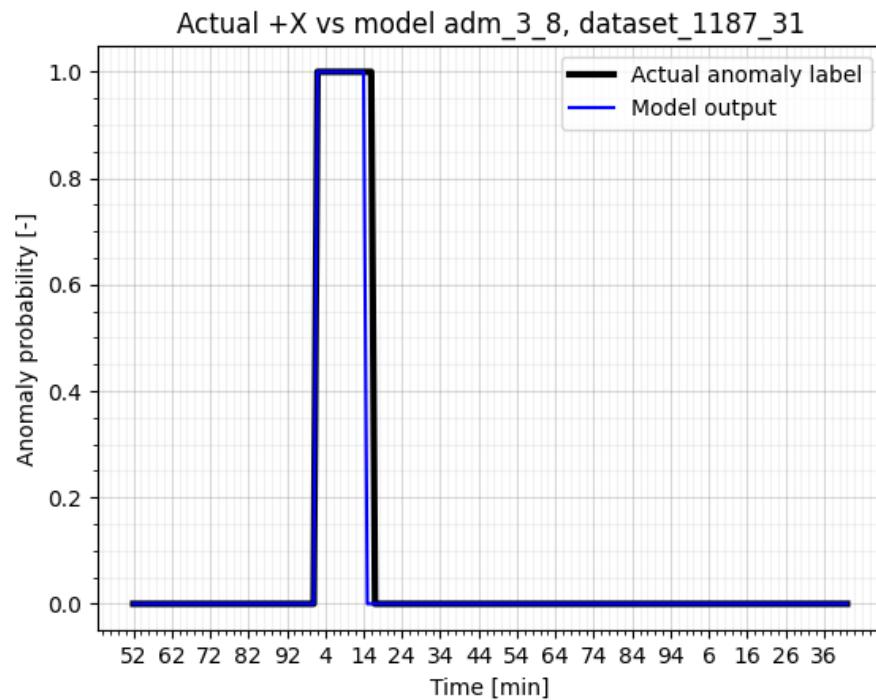


Figure 31: model inferences on dataset_1187_30_mod1.png





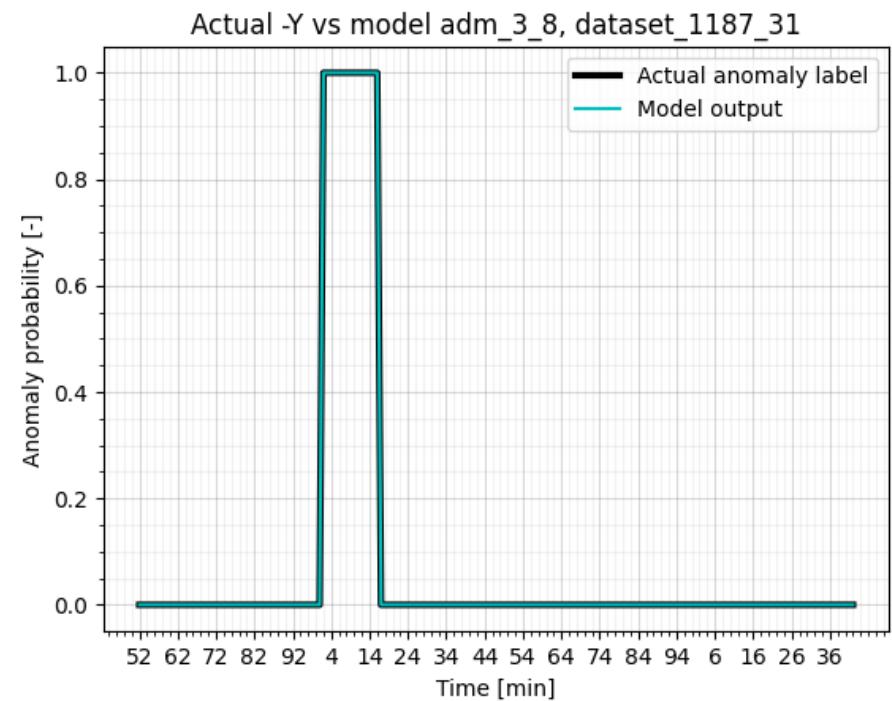
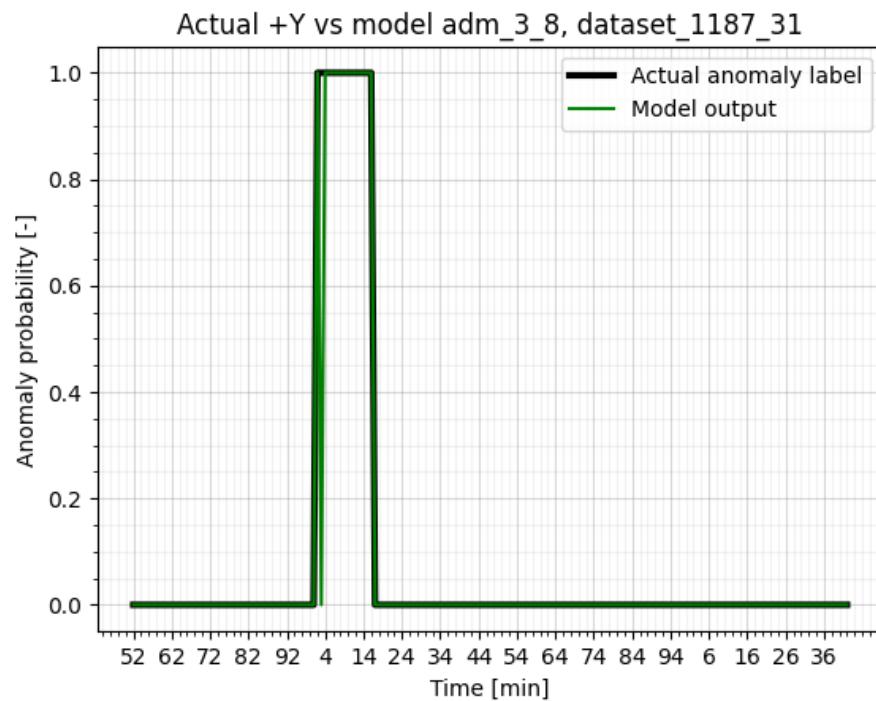
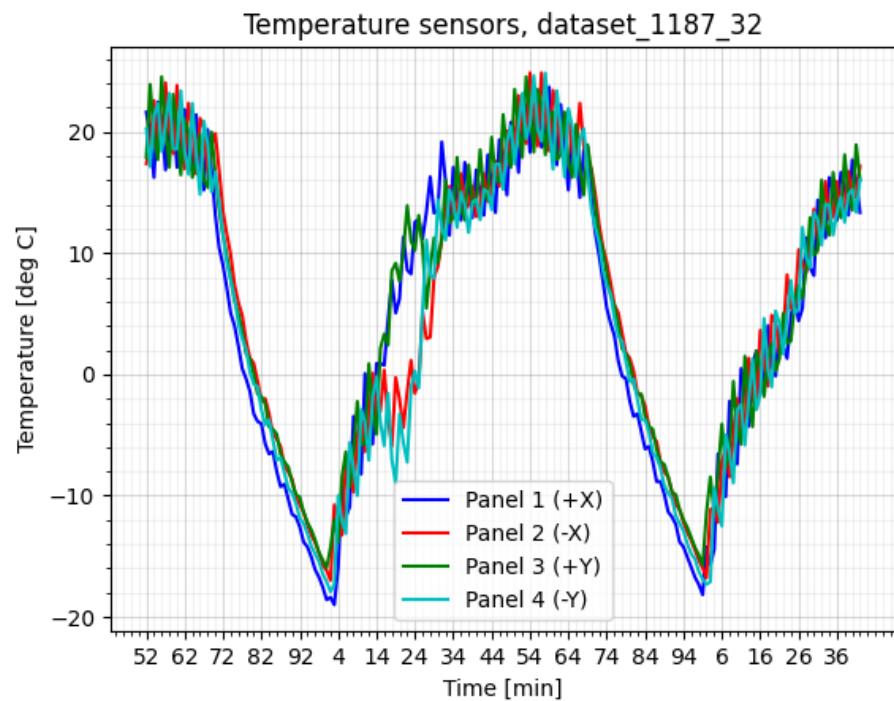
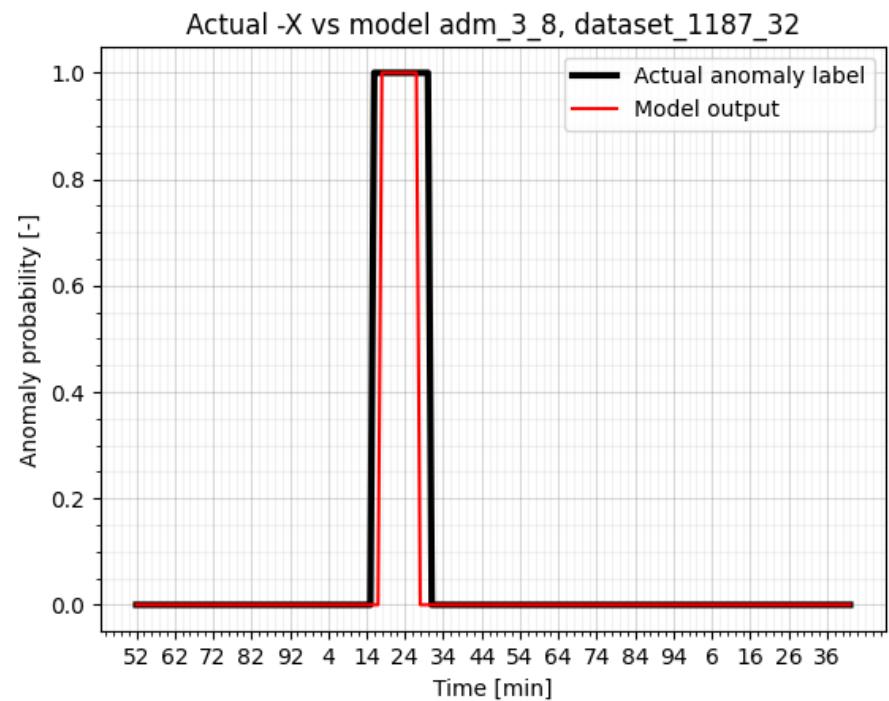
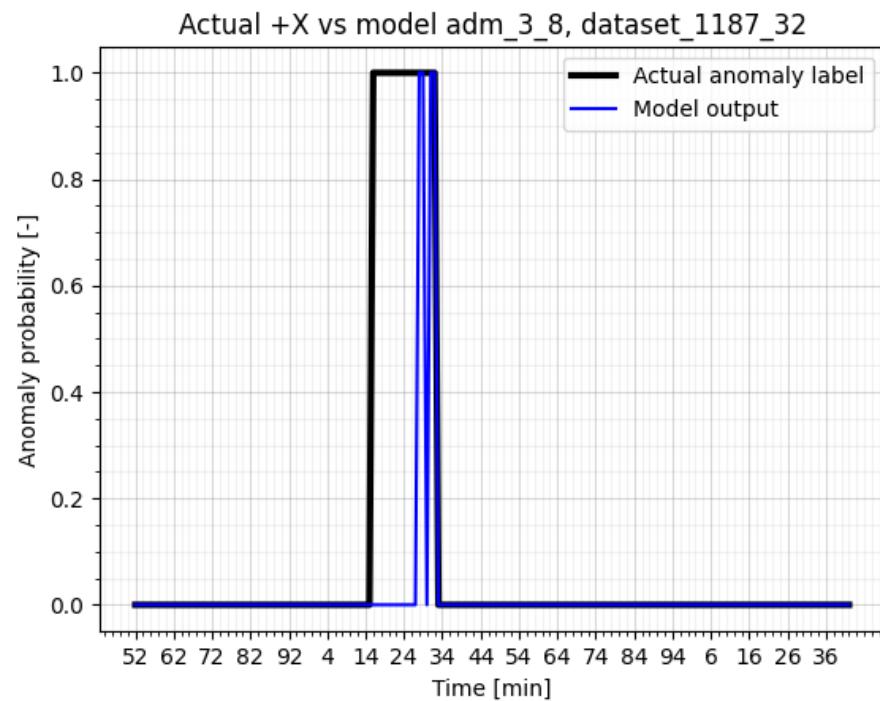


Figure 32: model inferences on dataset_1187_31_mod1.png





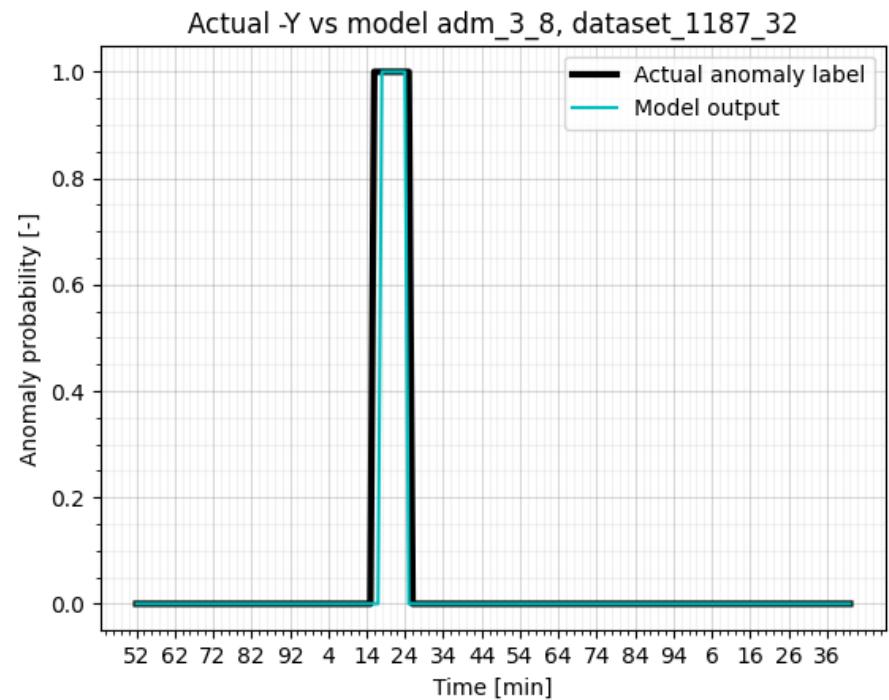
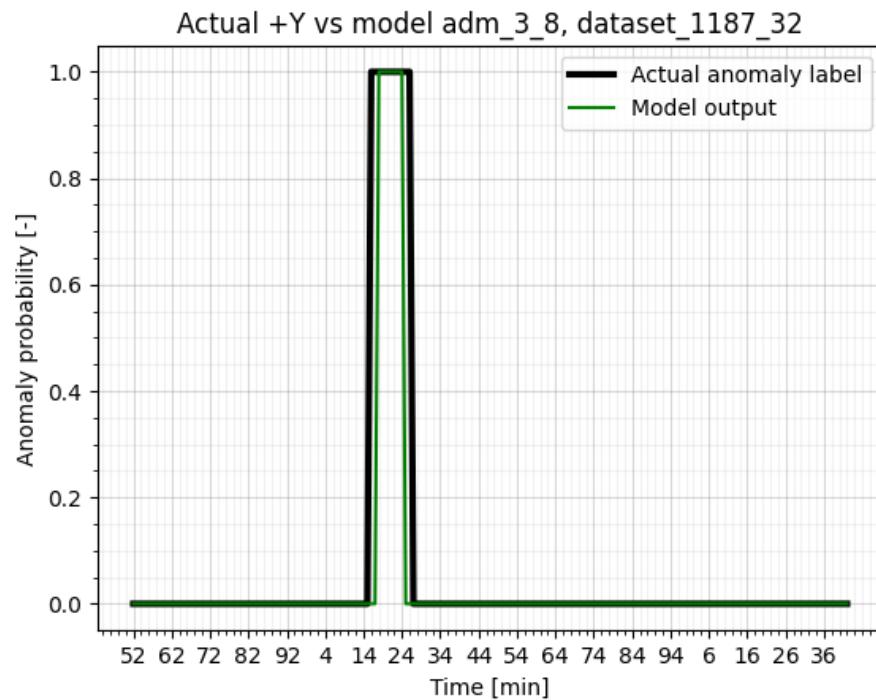


Figure 33: model inferences on dataset_1187_32_mod1.png