WHAT IS CLAIMED IS:

1. A building management system (BMS) comprising:

a sensor array structured to provide sensor data indicative of temperature, pressure, and humidity in an interior space; and

one or more processing circuits comprising one or more memory devices coupled to one or more processors, the one or more memory devices configured to store instructions thereon that, when executed by the one or more processors, cause the one or more processors to:

receive the sensor data from the sensor array,

receive a compliance standard defined by a third-party, wherein the compliance standard includes a plurality of non-manual entry setpoints;

generate, based on the sensor data, trend data indicative of the temperature, pressure, and humidity of the interior space over a period of time,

generate, based on the trend data, a prediction of future trend data for the interior space,

compare at least one of the sensor data or the prediction to the compliance standard, and

initiate an automated response process in response to a determining that at least one of the sensor data or the prediction does not meet the compliance standard.

2. The BMS of claim 1, wherein the one or more memory devices are further configured to store instructions thereon that, when executed by the one or more processors, cause the one or more processors to:

determine a confidence level for the prediction, and

compare the confidence level to a predetermined threshold, and

wherein the automated response process is initiated when the confidence level is greater than or equal to the predetermined threshold.

3. The BMS of claim 1, wherein the one or more memory devices are further configured to store instructions thereon that, when executed by the one or more processors, cause the one or more processors to generate a report summarizing the trend data and providing a time range when the sensor data is predicted to not meet the compliance standard.

4. The BMS of claim 1, wherein the automated response process includes controlling one or more primary building devices to affect at least one of the temperature, pressure, or humidity of the interior space based on the compliance standard.

5. The BMS of claim 1, wherein the automated response process includes:

generating a notification that indicates at least one building device associated with the at least one of the sensor data or the prediction that does not meet the compliance standard, and

transmitting the notification to a user device.

6. The BMS of claim 1, wherein the automated response process includes:

generating a work order for at least one building device associated with the at least one of the sensor data or the prediction that does not meet the compliance standard, and

transmitting the work order to at least one of a remote system or a user device.

7. The BMS of claim 1, wherein generating the prediction includes:

executing a predictive model to generate a first prediction of future trend data, and

determining, based on the first prediction of future trend data, a second prediction indicating a future compliance issue for a building device.

8. The BMS of claim 7, wherein the sensor data is first sensor data, and

wherein the one or more memory devices are further configured to store instructions thereon that, when executed by the one or more processors, cause the one or more processors to:

control one or more primary building devices based on at least one of the sensor data or the prediction,

receive second sensor data from the sensor array,

compare the second sensor data to the compliance standard to determine a reward value, and

update the predictive model based on the reward value.

9. The BMS of claim 7, wherein the one or more memory devices are further configured to store instructions thereon that, when executed by the one or more processors, cause the one or more processors to train the predictive model using historical temperature, pressure, and humidity data for the interior space.

10. A method for maintaining compliance of building equipment, the method comprising:

receiving sensor data from a sensor array located in an area of a building;

generating, based on the sensor data, trend data indicative of the temperature, pressure, and humidity of the area over a period of time;

generating, based on the trend data, a prediction of future trend data for the area;

receive a compliance standard defined by a third-party, wherein the compliance standard includes a plurality of non-manual entry setpoints;

comparing at least one of the sensor data or the prediction to the compliance standard; and

initiating an automated response process in response to a determining that at least one of the sensor data or the prediction does not meet the compliance standard, the automated response including a preemptive action that controls a heating, ventilation, or air conditioning system based on the trend data to maintain the temperature, pressure, and humidity within the compliance standard.

11. The method of claim 10, further comprising:

determining a confidence level for the prediction; and

comparing the confidence level to a predetermined threshold;

wherein the preemptive action is initiated when the confidence level is greater than or equal to the predetermined threshold.

12. The method of claim 10, further comprising generating a report summarizing the trend data and providing a time range when the sensor data is predicted to not meet the compliance standard.

13. The method of claim 10, wherein the preemptive action includes controlling one or more primary building devices to alter operation before the temperature, pressure, or humidity of the area is outside the compliance standard.

14. The method of claim 10, wherein the automated response process includes:

generating a notification that indicates at least one building device associated with the at least one of the sensor data or the prediction that does not meet the compliance standard; and

transmitting the notification to a user device.

15. The method of claim 10, wherein the automated response process includes:

generating a work order for at least one building device associated with the at least one of the sensor data or the prediction that does not meet the compliance standard; and

transmitting the work order to at least one of a remote system or a user device.

16. The method of claim 10, wherein generating the prediction includes:

executing a predictive model to generate a first prediction of future trend data; and

determining, based on the first prediction of future trend data, a second prediction indicating a future compliance issue for a building device.

17. The method of claim 16, wherein the sensor data is first sensor data, the method further including:

controlling one or more primary building devices based on at least one of the sensor data or the prediction;

receiving second sensor data from the sensor array after controlling the one or more primary building devices;

comparing the second sensor data to the compliance standard to determine a reward value; and

updating the predictive model based on the reward value.

18. The method of claim 16, further comprising training the predictive model using historical temperature, pressure, and humidity data for the area.

19. A non-transitory computer-readable storage media having computer-executable instructions stored thereon that, when executed by one or more processors, cause the one or more processors to perform operations comprising:

receiving sensor information over time from a sensor array located in an interior space of a building;

receiving operational parameters from one or more primary building devices;

generating trend data indicative of the temperature, pressure, and humidity of the interior space over a period of time using a machine learning engine that receives the sensor information and the operational parameters;

generating a future trend prediction of future trend data for the interior space using the machine learning engine;

comparing the future trend prediction to a compliance standard;

generating a predicted future compliance issue based on the comparison of the future trend prediction to the compliance standard;

determining a confidence level for the predicted future compliance issue; and

in response to a determination that the confidence level is greater than or equal to a predetermined threshold, initiating an automated response process.

20. The storage media of claim 19, wherein the automated response process includes at least one of:

transmitting a notification to a user device;

generating a work order for one or more building devices associated with the predicted future compliance issue; or

controlling the one or more building devices to prevent the predicted future compliance issue.

21. The BMS of claim 1, wherein the compliance standard is received from at least one of a mobile device and an interface.