What is claimed is:

1. A transportation refrigeration system, comprising:

a refrigeration circuit comprising a compressor (1), a condenser (2), and a plurality of evaporators (41, 42)

connected in parallel, all of which are connected to form a loop;

a plurality of chambers (71, 72), each of the evaporators being located in one of the chambers to adjust the chamber;

a plurality of sensors (51, 52) of the same type, each of the sensors being installed in one of the chambers respectively;

a control unit (6) characterized in that each of the sensors being configured to detect refrigerant leakage occurring in one of the chambers (71, 72) respectively; and

wherein after being installed in place and energized, the plurality of sensors send their own identification codes to the control unit, and the control unit allocates a Controller Area Network (CAN) ID to each of the sensors after receiving the identification codes of the sensors, so that the identification code of each sensor is bound to the corresponding CAN ID respectively.

2. The transportation refrigeration system according to claim 1, wherein the plurality of sensors are sensors (51, 52) have different identification codes.

3. The transportation refrigeration system according to claim 1 or 2, wherein the transport refrigeration system is configured such that when the sensor needs to be replaced, the sensor can be removed and a replacement sensor can be installed, and the replacement sensor can send its own identification code to the control unit (6) after it is installed in place and energized; and wherein, after receiving the identification code of the replacement sensor, the control unit is configured to allocate a CAN ID to the replacement sensor, so that the identification code of the replacement sensor is bound to the corresponding CAN ID.

4. The transportation refrigeration system according to claim 1, 2 or 3, wherein the control unit (6) reports an error when receiving a repeated identification code, and prompts to replace the sensor that sends the repeated identification code.

5. The transportation refrigeration system according to any of claims 1 to 4, wherein the control unit (6) is configured to prompt a corresponding identification code when the sensor sends an alarm or has a fault.

6. A Controller Area Network (CAN) ID allocation method for a transportation refrigeration system, the transportation refrigeration system comprising:

a refrigeration circuit comprising a compressor, a condenser (1), and a plurality of evaporators (41, 42) connected in parallel, all of which are connected to form a loop;

a plurality of chambers (71, 72), each of the evaporators being located in one of the chambers to adjust the chamber; and

a plurality of sensors (51, 52) of the same type, each of the sensors being installed in one of the chambers respectively,

characterized in that each of the sensors being configured to detect refrigerant leakage occurring in one of the chambers (71, 72) respectively

wherein the method comprises:

sending (S1), by the sensors, their own identification codes to a control unit (6) after the sensors are installed in place and energized; and

allocating (S3) , by the control unit, a CAN ID to each of the sensors after the control unit receives the identification codes of the sensors, so that the identification code of each sensor is bound (S4) to the corresponding CAN ID respectively.

7. The method according to claim 6, wherein the plurality of sensors (51, 52) have different identification codes.

8. The method according to claim 6 or 7 , further comprising:

removing (S8) the sensor when the sensor needs to be replaced, and installing (S0) a replacement sensor; and

sending (S1), by the replacement sensor, its own identification code to the control unit (6) after it is installed in place and energized; and allocating (S3), by the control unit, a CAN ID to the replacement sensor after the control unit receives the identification code of the replacement sensor, so that the identification code of the replacement sensor is bound (S4) to the corresponding CAN ID.

9. The method according to claim 6, 7 or 8, comprising reporting by the control unit (6) an error when the control unit receives a repeated identification code, and prompting by the control unit to replace the sensor that sends the repeated identification code.

10. The method according to any of claims 6 to 9, comprising configuring the control unit (6) to prompt a corresponding identification code when the sensor sends an alarm or has a fault.