



# TraceNet™ Genesis - FAQ's

Control & Monitoring Systems - Frequently Asked Questions

The new TraceNet Genesis is the Flagship of the Thermon TraceNet family, and is sure to become the benchmark against which all Electrical Heat Trace controls and monitoring systems will be measured worldwide.

Most of the functions the Genesis provides may be similar to other TraceNet Controls & Monitoring systems. How it performs these functions, the increased latitude a user has in establishing set points, monitoring the performance of the system over time and over how each circuit is “behaving” over the length of the line is a quantum leap over every other system in the industry.



**The following FAQ's will help everyone understand it's true value to industry:**

**Question:** Does the Genesis carry approvals for hazardous (classified) locations?

**Answer:** Yes! The new system will carry systems and component approvals for both North American Norms (Class I Div. 2) and IEC (ATEX and IECEx). By certifying components, panel shops that meet Thermon's rigid QA/QC criteria are capable of fabricating approved panels in many parts of the world.

**Question:** What is the operating ambient temperature range?

**Answer:** The operating ambient for the TraceNet Genesis is -40°C to 60°C (-40°F to 140°F).

**Question:** Is circuit history available on the Genesis HMI without a TraceNet Command installation?

**Answer:** Yes! Up to six months of history is stored locally on the Genesis HMI.

**Question:** Does the new Genesis HMI touch-screen respond to touch with a glove?

**Answer:** Yes! The high-resolution & sensitivity of the Genesis HMI allows response to “glove-touch”.

**Question:** Can the Genesis HMI display a circuit isometric drawing locally without additional software?

**Answer:** Yes! The TraceNet Genesis HMI allows a png file to be uploaded locally for association with any heating circuit.

**Question:** Is the Genesis HMI display clear in low-light or direct sun-light conditions?

**Answer:** With daytime and nighttime view-settings, the user can adjust the clarity of the screen as required. Also, because there's a silicone gel between the glass and the LCD screen, the clarity is excellent when shade and sun are both across the screen.

**Question:** Can the Genesis HMI display be mounted directly in a cabinet door?

**Answer:** Yes! The Genesis HMI carries an IP66 rating so it can be exposed directly to moisture (front and back!) without supplemental protection from rain or driplines.

**Question:** Can the Genesis HMI display circuit info from other Genesis systems?

**Answer:** No. Each HMI is currently designated to control and monitor only circuits directly associated within a common system.



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**Question:** Can the Genesis HMI display circuit info from other TraceNet systems?

**Answer:** No. The Genesis HMI is not currently designed to display circuit information from ECM or TCM18 Control & Monitoring Systems.

**Question:** How does the Genesis address multiple RTD Sensors for control or alarm?

**Answer:** Every heater can have up to twenty (20) RTD sensors, or a single RTD Sensor drive up to seventy-two (72) heaters, and any combination in between.

**Question:** Are the Genesis RTD Sensors fully addressable?

**Answer:** Yes! Each point of the 6-circuit DTM (Distributed Temperature Module) where RTD Sensors are landed, and each point of the 6-circuit DCM (Distributed Control Module) where outputs to control relays are connected are independently addressed. So, the user simply lines up which RTD(s) with the appropriate heater(s).

**Question:** How does the Genesis address multiple RTD Sensors for control or alarm?

**Answer:** The user has unlimited latitude to have a circuit turn on based on the lowest temperature seen or average multiple RTD temperatures to turn a heater on or off. Similarly, specific sensors can be selected to annunciate low and high temperature alarms. If set to trip on a high temperature, it's typically any sensor at that set-point.

**Question:** Are the Genesis communications able to connect to an Ethernet network?

**Answer:** Yes! The standard connection for the Genesis is Ethernet. (ModBUS protocols are possible using an RS485 convertor directly at the Genesis panel.)

**Question:** Can the new Genesis systems retrofit older Control & Monitoring systems?

**Answer:** No. The Genesis Systems are not currently compatible with the other Thermon TraceNet multi-point systems, nor earlier versions of the TC1818 systems.

**Question:** Are the Genesis systems compatible with TraceNet Command networks?

**Answer:** Yes! Genesis systems can be connected to TraceNet Command without any need for a DCD (Data Concentrator Device). If connected to a network of earlier generations of TraceNet devices, the DCD may be required for the older devices to be connected to later versions of the TraceNet Command Communications Software.