APPLICATION

The Thermon Genesis DuoTM is a microprocessor-based temperature control and monitoring module developed specifically for heat tracing applications. The unit provides control and monitoring capabilities for one or two heat tracing circuits with input from up to two RTDs per circuit. The unit can be configured to control and limit with dedicated RTD inputs for the limiter channel. Genesis Duo has a 4.3" glove touch capable LCD display with an additional light ring for visual indication. Genesis Duo is also native to the Genesis Network requiring no additional hardware to communicate with Thermon's state of the art supervisory and management platform.

PRODUCT FEATURES

A Thermon Genesis DuoTM control and monitoring unit offers the following features:

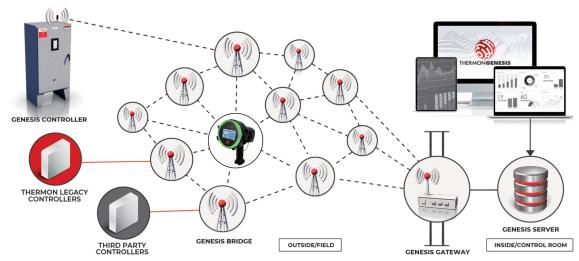
Efficient Configuration and Operation: With the glove touch enabled 4.3" LCD operators can quickly program the Genesis Duo and access all readings. When the Duo is connected to Genesis Network configuration and operation can be done from a centralized location to enable a distributed controls petwork

Improved Control Methods: The Duo utilizes multiple control methods, On/Off, Soft-Start, Proportional) and features the upgraded Ambient Proportional Control (APC and APCM) that employs the energy saving method of Ambient Proportional Control with the higher current capacity of the mechanical relay.



<u>Upgraded Communications:</u> The Duo is Genesis Network native with the built in wireless mesh or wired ethernet. The Duo can also optionally be connected directly to any plant DCS system via Modbus RTU (Modbus TCP will be available in a future update).

High Temperature Limiter: The Duo has the ability to be configured as a single channel with a high temperature limiter. The high temperature limiter functionality is isolated and has dedicated RTD inputs. The Duo when enabled with the limiter function meets the requirements of IEC/EN/UL/CSA 60079-30-1 for controlled design to limit energy to the heat trace in explosive atmospheres.

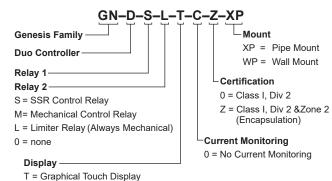


GENESIS NETWORK

The Thermon *Genesis Network* consists of a control room server, a gateway, and a collection of field deployed bridges/nodes that form a wireless mesh communications network. Alternatively, the network can be made via a traditional wired Ethernet network. The *Genesis Network* connects all heat trace panels and controllers to the control room and gives visibility of all assets from a single dashboard and user interface that can be accessed from any browser.

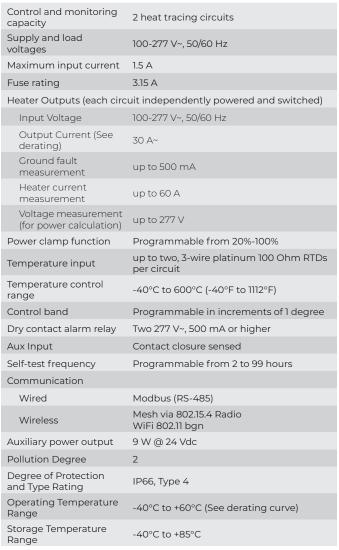
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HOW TO SPECIFY

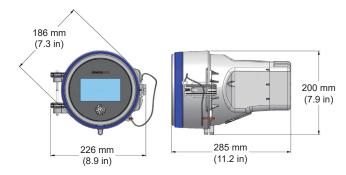


RATINGS

0 = No Display



PRODUCT DIMENSIONS



CERTIFICATIONS/APPROVALS



-40°C ≤ TAMB ≤ +60°C

Class I, Zone 1, AEx ec mc [ib Gb] IIC T4 Gc Class I, Division 2, Groups A, B, C, and D T4

Ex ec mc [ib Gb] IIC T4 Gc

II 3 (2) G Ex ec mc [ib Gb] IIC T4 Gc