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# DC-2020

## Next Generation STACIS® Digital Controller with Graphical User Interface



The TMC DC-2020 sets the standard for control of active vibration cancellation, specifically for STACIS III technology. The all new DC-2020 controller offers unmatched processing speed with next-generation capability for system optimization and performance monitoring. This new advanced control system provides the user with a modern and easy to navigate Graphical User Interface (GUI). Alternatively, the system menu tree can also be navigated via an integrated front panel Liquid-Crystal Display (LCD) with push-button operation.

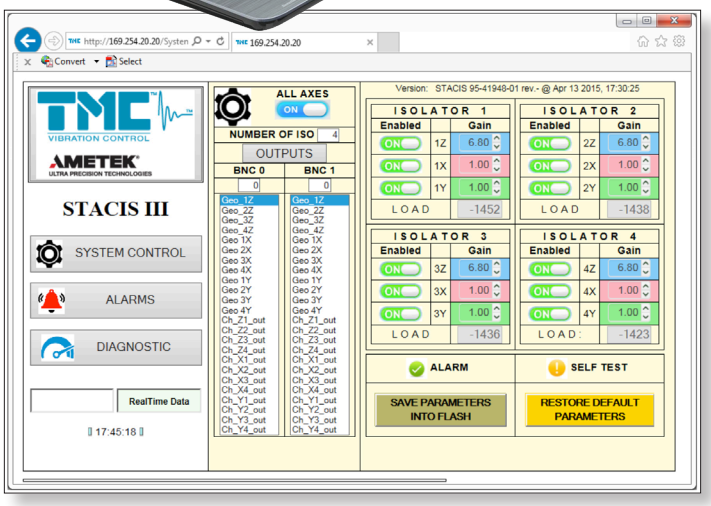
**Two options now available —**

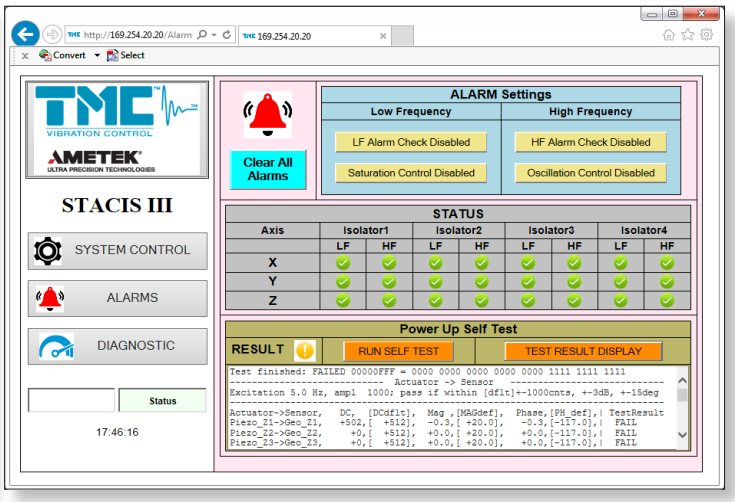
The DC-2020e digital controller with Ethernet and USB ports front and back is the standard controller for STACIS III. This option provides a simple to install web-based GUI (no additional application software to install) with the ability to connect multiple systems to a network hub. This networking capability allows for multiple systems to be monitored from a single remote PC.



STACIS III is alternatively available with the DC-2020u which has no Ethernet ports, only the single USB port on the front panel. A TMC provided executable file enables the PC-based GUI via this serial USB port.

Both options include the Front Panel Display therefore monitoring via a PC is optional.




*Sample graphical user interface (GUI) screens*

# Specifications

# DC-2020




*DC-2020e front view*



*DC-2020e rear view*

## General

| | |
|---|---|
| **Primary User Interface** | Graphical User Interface (GUI) via USB or Ethernet |
| **Secondary User Interface** | Front panel LCD with push-button driven menu |
| **Physical Dimensions (WxDXH)** | 19 x 8.5 x 1.75 in. \| 483 x 216 x 45 mm<br>(1 Standard RETMA unit w/rack mounting brackets) |
| **Weight** | 6.3 lb (2.9 kg) |
| **Power Requirement** | 100-240 VAC 500 VA, 50-60 Hz, CE compliant |
| **Environmental (refer to EN 61010-1: 1993, EN 61010-1/A2: 1995):** | For indoor use only: up to an elevation of 2,000 m (6,560 ft.)<br>Maximum allowable temperature range: 5°C to 35°C<br>Maximum allowable humidity: 80% up to 31°C,<br>decreasing linearly to 50% relative humidity at 40°C<br>Tolerance in main supply voltage: ± 10% of nominal voltage<br>Overvoltage: category 2<br>Pollution degree: (IEC 664) 2<br>Ventilation requirements: 25 mm clearance on sides and back, 0 mm top and bottom |
| **Cooling fan** | On rear panel |

## Performance

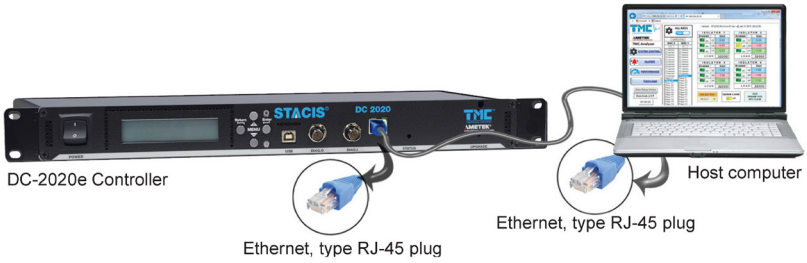
| | |
|---|---|
| **Processor** | Dual core processor 150/75 MHz |
| **Loop Rate** | 10 kHz typical (128 Bi Quad filters) |

## Interface

| | |
|---|---|
| **Front panel** | LCD with push-button operation<br>3-color status LED<br>USB 2.0 full speed: 12 MHz<br>Micro USB (DC-2020e only)<br>Ethernet: RJ-45 (DC-2020e only)<br>Two BNC sockets:<br>each can be input or output<br>Main power switch |
| **Rear panel** | Ethernet RJ-45 (DC-2020e only)<br>USB 2.0 full speed 12 MHz (DC-2020e only)<br>RS-232 DB-9 legacy serial port;<br>up to 921600 baud (DC-2020e only)<br>(compatible with STACIS® 2100)<br>Relay socket (no auxiliary power) |
| **Connection to STACIS isolators** | Two DB-37 F 16 channel input/output on rear panel |
| **Analog inputs** | 16 channels 12 bit Internal ADC 0…+3.3 V,<br>16 channels 16 bit 0…3.3 V converted to<br>±10 V by legacy interface board |
| **Analog outputs** | 16 channels 16 bit 0…3.3 V converted to<br>±10 V by legacy interface board |
| **Digital input/output** | Optional |
| **Communication channels** | Ethernet: 10/100T (DC-2020e only)<br>USB 2.0 channels: full speed 12 MHz<br>Optional high speed data monitoring output<br>with serial peripheral interface |
| **User interfaces** | Character menu using Terminal applications<br>Extended GUI on Windows-based PC<br>Embedded Ethernet control pages<br>using any OS platform (DC-2020e only)<br>(see figures below) |

## GUI available via ethernet or USB interface

**Ethernet Port Setup – GUI created in PC's browser**




**Serial Port USB – GUI with TMC provided executable file**




Maximum cable length = 16.4 feet (5 meters)

*DC-2020 flyer A4 180111*

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