

Nanodac Recorder

DS7001



Features:

- 3.5" TFT display
- Secure data recording
- 2 PID control loops
- High accuracy universal inputs
- USB removable data storage facility
- Compact design
- 50MB flash memory
- Ethernet communications
- ¼ VGA crystal clear display
- 4 virtual channels



Description:

The nanodac™ recorder/controller offers the ultimate in graphical recording combined with PID control for a box of its size. The compact ¼ DIN panel mount unit offers four high accuracy universal inputs for data recording and PID control. This secure data recording device with accurate control is enhanced by a full colour, ¼ VGA display to bring a crystal clear operator interface to even the smallest of machines.

The nanodac recording functionality utilises the secure strategies and UHH format developed by Eurotherm through years of recording expertise. As well as multiple real-time views and historical review on the product, multiple data archiving strategies are provided utilising the 50MB onboard Flash memory, removable USB and data transfer via FTP to a specified server.

The four universal input channels provide high accuracy (suitable for use in Nadcap applications) and 125ms parallel sampling. An additional 14 virtual channels can be utilised to provide maths, counter, slave communications and totaliser functionality within the instrument.



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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| GENERAL | |
|---|---|
| Analogue i/p | Four |
| Digital i/o | One |
| Digital i/p | Two |
| Relay o/p | Two + two with shared common connection |
| ENVIRONMENTAL PERFORMANCE | |
| Ambient Operating Temperature | 0 to 55°C |
| Ambient Storage Temperature | -20 to 70°C |
| Operating Humidity | 5 to 85% RH non-condensing |
| Storage Humidity | 5 to 85% RH non-condensing |
| Protection - Front Panel | IP65, NEMA 4X (international) |
| Protection - Behind Panel | IP10 (international) |
| Protection - Shock/Vibration | To BS EN61131-2 (5 to 150Hz at 1G, 1 octave per min) |
| Altitude | <2000 metres |
| Atmosphere | Not suitable for use in explosive or corrosive atmospheres |
| Electrical Safety | BS EN61010-1 (installation category II; pollution degree 2) |
| Electromagnetic Compatibility - Emissions | BS EN61326 Limit B - light industrial |
| Electromagnetic Compatibility - Immunity | BS EN61326 Industrial |

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| OTHER APPROVALS AND COMPLIANCE DETAILS | |
|--|---|
| General | CE and cUL, EN61010 |
| PV Input | AMS2750D compliant |
| Packaging | BS61131-2 section 2.1.3.3 |
| PHYSICAL | |
| Panel Mounting | ¼ DIN |
| Weight (instrument only) | 0.44 kg |
| Panel Cutout Dimensions | 92 mm x 92 mm |
| Depth Behind Panel | 90 mm (excluding wiring) |
| OPERATOR INTERFACE | |
| Display | 3.5" TFT colour display (320 px wide x 240 px high) |
| Controls | Four navigation pushbuttons below the display screen (Page, Scroll, Lower and Raise) |
| POWER REQUIREMENTS | |
| Supply Voltage | 100 to 230V AC ±15% (48-62Hz) |
| Power Dissipation | 9W (maximum) |
| Fuse Type | None |
| Interrupt Protection | Holdup >10ms at 85V RMS supply voltage |

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