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.

**Crystal clear, color display**

The 3.5” TFT display offers incredibly clear visualization of process parameters with a wide selection of configurable views to best suit the application. Views include: Horizontal and vertical trends; Horizontal and vertical bar graphs; Numeric; Alarm status, and control loops. The unit also provides user wiring from the front of the product for detailed configuration without the need to connect to a PC.

**Data Acquisition and Recording**

The nanodac recording functionality utilizes 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 utilizing 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 15 virtual channels come standard, and can be utilized to provide maths, counter, slave communications and totalizer functionality within the instrument. Virtual channels 16-30 are available as an option when either Modbus Master or Ethernet/IP options are selected.

Review software can also be utilized to automatically initialize pulling of data to a Review database over the Ethernet network. Both Review and Dream Report™ software can be used for report generation that meets the needs of your process.

**PID Control Loops**

The nanodac instrument can also provide two independent control loops (optional). This control functionality utilizes the advanced Eurotherm PID algorithm providing high performance and reliability to your process. Functionality includes one of the best autotune facilities available along with overshoot inhibition (cutbacks); compensation for power fluctuations using power feedforward; linear, fan, oil and water cooling.