

# IQ251 Controller



## Features and Highlights

- Fully programmable high capacity DDC controller with PID loops
- 1 second program cycle time
- 1000 point data logs
- Stand-alone or integrated system operation
- 2-part connectors to facilitate wiring
- Flexible I/O combinations with up to 8 input/output modules for optimum configuration



The IQ251 is a large capacity controller designed to control all types of building equipment. The IQ251 can operate either as a stand-alone device or as part of a building automation system.

The IQ251 provides up to 128 I/O points by connecting 8 I/O modules in any combination. Three types of I/O modules are available: an 8 analog and 8 digital input module (EIN), an 8 analog output module (EAO), and an 8 digital output module (EDO).

Accessory modules can connect to the input/output channels to provide even greater I/O flexibility. With these modules, the IQ251 can support more complex strategies.

With an optional network display panel (NDP) and a node controller integrated within the IQ251, you can access all IQ controllers on a single or multi-LAN system. The NDP can be fitted on the front cover of the IQ251 or installed remotely.

The IQ251 can also connect any Supervisor or Engineering Tool to the network without the need for a separate node controller.

### NOVAR CONTROLS

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## Technical Data

- **Power** 230 VAC 50/60 Hz, 24 VAC 50/60 Hz, or 24 VDC. 100 VA maximum consumption.
- **Auxiliary Power** 24 VDC +/-10% 500mA maximum.
- **Battery** Saft LM2450, 3 V or equivalent battery maintains time and logged data with power off for at least 5 years.
- **Inputs and Outputs** Range of I/O modules that can be fitted in any combination in the 8 I/O slots. The range is comprised of an 8 analog and 8 digital input module (EIN), 8 analog output module (EAO), and an 8 digital output module (EDO).
- **Baud rate** Switch selectable baud rate of 1200, 9600, or 19200.
- **Processor & Memory** 32 bit processor with 512 Kb battery-backed SRAM and 512 Kb flash memory.
- **Controller Dimensions** 21.7" (550mm) x 17.32" (440mm) x 6.9" (175mm).
- **I/O Module Dimensions** 2.83" (72mm) x 7.95" (202mm) x 1.69" (43mm).
- **I/O Terminations** 14 to 20 AWG cable.
- **Environmental** 32–113°F (0–45°C). 0–90% RH, non-condensing.
- **Ratings** Listed Underwriters Laboratory for Enclosed Energy Management Equipment under the UL Standard for Safety 916. U.S. certification.

## Ordering Information

Item number	Description
882000000	IQ Controller
882000010	IQ251 controller with modem
882000020	IQ251 controller with NDP
882000030	IQ251 controller with modem and NDP
882000040	8 analog and 8 digital input module for IQ251 controller
882000050	8 analog output module for IQ251 controller
882000060	8 digital output module for IQ251 controller

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