



Authorized Distributor

Quko Int'l Development Limited

Unit B, 17/F, EGL Tower, 83 Hung To Road, Kwun Tong,

Kowloon, Hong Kong, China

Tel: (852) 2344 0201

Email: sales@qukointl.com

Fax: (852) 2343 6078

Website: www.qukointl.com



"Innovative digital controller for fan-coil units. Compact dimensions but powerful and flexible hardware with 20 Inputs/ Outputs."



ENERGON

ModBus RS-485 communication. Proprietary Bus to connect more controllers to a single room sensor.

Removable terminal plugs for: power supply, high power signal, low power signal. Digital room sensor with adjustment for: set point, fan speed (manual or auto-matic), Economy/ Comfort mode.

Analog/Digital Inputs for sensors and remote function selection (e.g. Change/Over, Economy, Window Contact and more). 2 Analog Output (0..10Vdc) for modulating valves and modulating fan speed control.

High Voltage Digital output for valves control and 3 fan-speed control. Digital Inputs: Winter/Summer change over, Economy mode, Remote power-off (Occupancy Sensor), Windows contact. Digital Outputs for External Relays: Electrical heater, Electrical Power enable. Universal power supply from 85

to 265 Vac.
Control possibilities:

- On-Off valves + 3 fan-speed control
- 3pos Floating valves + 3 fan-speed control
- On-Off valves + Proportional 0..10Vdc fan-speed control
- Modulating valves + 3 fan-speed control
- Modulating valves 0..5Vdc + 5..10Vdc valves + Proportional 0..10Vdc fan-speed control

Room Sensor available in 2 colors (black & white) external frame available in many different colors. Flush mounting or wall mounting. Functions: On/Off/Economy Mode set, fan speed selection (Auto/3/2/1/0), temperature set point adjustment, multicolor leds (red-green-orange) showing operating mode (Off-Comfort-Economy). User may have full control or

limited control or no control. Free of charge Configuration Tool for setting of all parameters, overview on the plant installation showing the key variables for each individual controller, setting of daily & weekly time schedules.

Graphic Display Panel (Multinet).

Pre-programmed panel ready to control up to 50 controllers, allowing daily (6 per day) and weekly (3 per week) time schedules, web server capabilities, remote monitoring and supervisory through Internet Explorer. Configurable features through dipswitches on the electronic board: Stand Alone or Network integrated, 2 Pipes or 4 Pipes FCU, valve control (On/Off or proportional) and fan speed control (3 fan-speed or proportional), ModBus address setting. User-friendly supervisory achieved by direct connection to Controlli GT touch-screens.

MODEL	POWER SUPPLY [Vca]	DESCRIPTION	INPUTS	OUTPUTS
NR9000	85-265	CONTROLLER FOR FANCOIL MODBUS	<ul style="list-style-type: none">• <u>DIGITAL INPUT - WINDOW CONTACT</u>• <u>DIGITAL INPUT - REMOTE ON/OFF</u>• <u>DIGITAL INPUT - SUMMER / WINTER</u>• <u>DIGITAL INPUT - COMFORT / ECO</u>• <u>ANALOG INPUT - RETURN SENSOR</u>• <u>ANALOG INPUT - SET ADJUSTMENT</u>• <u>ANALOG INPUT - AUXILIARY LOOP SENSOR</u>• <u>ANALOG INPUT - AUXILIARY LOOP SET ADJUSTMENT</u>	<u>4 TRIAC OUTPUT FOR VALVES (24- 250V 4A)</u> <u>3 RELÉ OUTPUT FOR FAN (24- 250V 8A)</u> <u>2 ANALOG OUTPUT FOR VALVES/ FAN (0-10V)</u> <u>2 OPEN COLLECTOR OUTPUT CONFIGURABLE (FOR RELAIS DGSRMV)</u>
NR9000-RT1A		REMOTE SENSOR FLUSH MOUNTING CHARCOAL		
NR9000-RT2A		REMOTE SENSOR WALL MOUNTING CHARCOAL		
NR9000-RT1B		REMOTE SENSOR FLUSH MOUNTING WHITE COLOR		
NR9000-RT2B		REMOTE SENSOR WALL MOUNTING WHITE COLOR		
MT-NET-PONR	REMOTE PANEL WITH GRAPHICAL DISPLAY FOR SUPERVISION OF UP TO 50 NR9000. WEB SERVER.			



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Wall sensor is customizable with almost any color for the frame

COMPACT

compact hardware (6 DIN module) with 20 Inputs & Outputs
digital room sensor with adjustment for: set point, fan speed and Economy/Comfort mode
one model suitable to any FCU (2-pipe, 2-pipe with electric heater, 4-pipe, etc.)

POWERFUL

6 Analog/Digital Inputs for sensors and remote function selection (e.g. Change-over, Economy, Occupancy sensor, Window contact...)
2 Analog Output (0..10Vdc) for modulating valves and modulating fan speed control
7 High Voltage Digital output for valves control and 3 fan-speed control
ModBus RS-485 Communication
Up to 50 controllers managed through one MT-NET-PONR remote user panel with web server capabilities

EASY

Most important parameters, including Modbus addresses, are configurable through dip-switches directly on the electronic board
Configuration tool (free of charge) for PC useful to set all parameters and to achieve a user-friendly remote monitoring

FLEXIBLE

Proprietary Bus to connect more units to a single room sensor
Universal power supply from 85-265 Vac
removable terminal plugs for power supply, high power signal, low power signal

