

IS70A A/C Energy Saving Switch

(For Offices, Classrooms, Labs, Meeting Rooms, Libraries, Listening Rooms)

SUITED FOR VARIOUS TYPES OF AIR CONDITIONERS



Window Type A/C



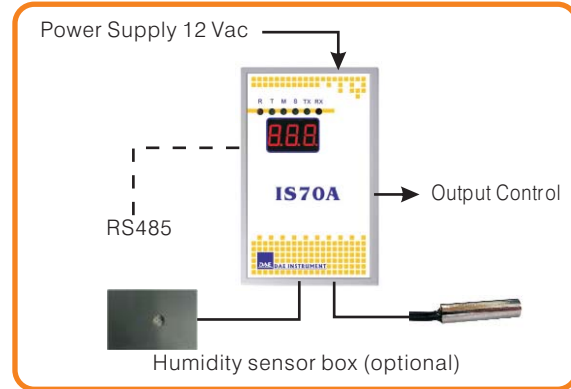
Box Type



Split Type A/C



Central A/C



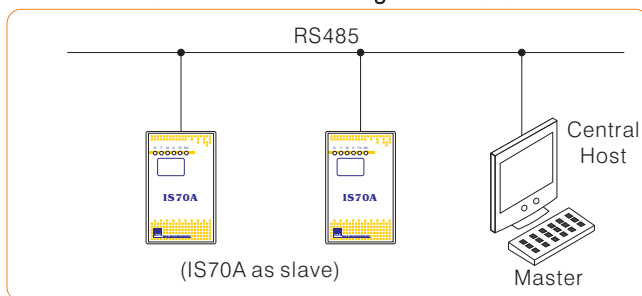
THE IDEAL SOLUTION TO A/C ENERGY SAVING

Energy Waster	Solution
Upon entering a room - the a/c is turned on out of habit regardless of need.	When the room temperature is lower than 27°C, the power to the a/c will not be enabled.
Setting too low - It's too hot, in order to cool the temperature faster, the thermostat is set to 22°C. Of course once the thermostat is set to 22°C, it will always remain at this setting, wasting energy.	Once the a/c is turned on, when the room temperature remains lower than 23°C for 3 minutes, then the a/c is automatically turned off.

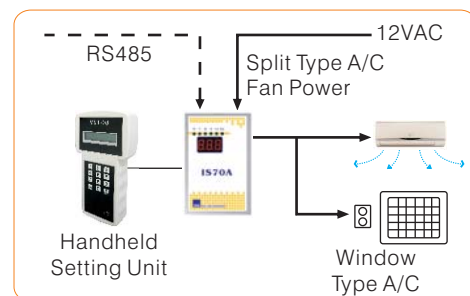
INTRODUCTION

The IS70A can control the energy usage of A/C equipment by insuring that it is activated only when the temperature is lower than the preset level. It is also equipped with an RS485 port that can be used to communication with a central host or to send control codes to DAE' s other meter or addressable relay products.

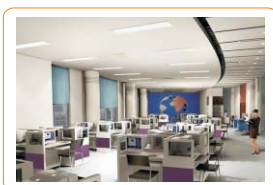
Central Host monitoring various IS70



WIRING DIAGRAM



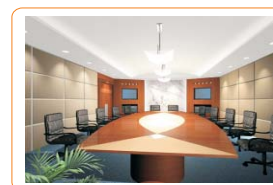
APPLICATIONS



Offices



Activity Rooms



Meeting Rooms



Classrooms



Labs




Libraries

SPECIFICATIONS

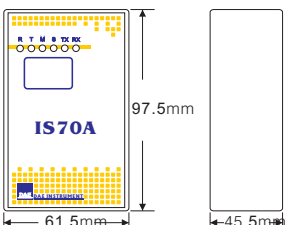
- **Display:**
 - Indoor temperature and (humidity) displays alternately
 - Note: Humidity is optional, when not installed will display “---”
 - Format: Temperature XX.X, Humidity XX
- **Input and Output:**
 - Indoor temperature sensor (standard accessory); range: 0 to 50 °C
 - Humidity sensor (optional accessory); range: 4% to 90% (Model IS70A-RH)
 - Relay: 10A/220VAC
 - RJ11 socket, provided for handheld setting tool (during setting, the RS485 must be disconnected from the bus)
 - RS485 port
- **Power Supply:** 12V AC/DC, 200mA
- Operation:**
 - During standby, temperature and humidity are alternately displayed
 - When the room temperature is above upper limit, relay can be set to either turn on or off.
 - When the room temperature is below lower limit, relay can be set to either turn on or off.
 - The above feature describes the built-in relays, but it can also control external devices through the RS485 port through the
- **LT3504/LT3100**
- **Mounting:** Wall Mount
 - Settable Parameters (using handheld setting unit or central host)
 - Upper temperature limit
 - Lower temperature limit
 - Group number (1 to 8)
 - Communication speed: 2400 to 9600 bauds
- **RS485 Communications**
- **Modbus/RTU (slave mode)**
 - Read temperature and humidity, set temperature upper and lower limits
 - During slave mode, address from 0 to 63 (DIP switch)
 - During master mode, can send group commands

Handheld Setting Unit



- Set upper temperature limit
- Set lower temperature limit
- LCD display 16 characters by 2 columns
- 12 key keypad

Dimensions

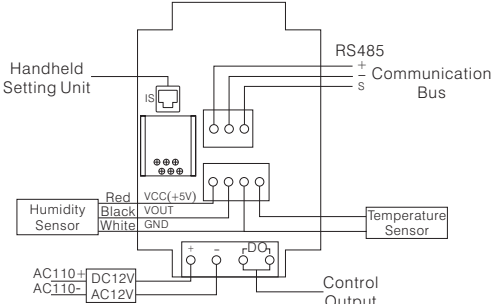


DIP Switch

Master Mode: Bit 7 ON	
6	Modbus
5	Logic: Positive OFF / Negative ON
4	Group (OFF) / Single (ON)
3 - 0	Group 1 to 8

Slave Mode

Slave Mode: Bit7: OFF	
6	Baud Rate 2400 ON / 9600 OFF
5 - 0	Address

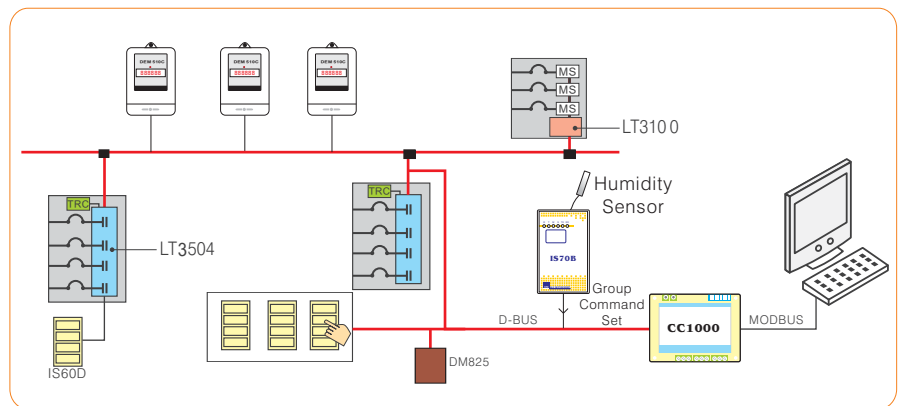


ORDERING CODE

Model	Description
IS70A	A/C Energy Saving Switch
IS70A-RH	IS70A with humidity sensor
MST-08	Handheld setting unit

IS70A AS MASTER APPLICATION DIAGRAM

When the high temperature limit is exceeded, the IS70A will automatically send a group command on the D-Bus to its peers (DEM510C / LT3504 / LT3100) to turn the relay to “ON”. Conversely, when the IS70A detects that the low temperature limit is reached, it will send out a group command to set peer relays to “OFF”.



IS70A as Master



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