AI Comfortable Heating System

人工智能暖氣系統

AI Thermo Control

SCR Power Controler

Stainless Steel Heater

Heater Box

DDS AI THERMO CONTROL

AI-T-250

AI thermo control

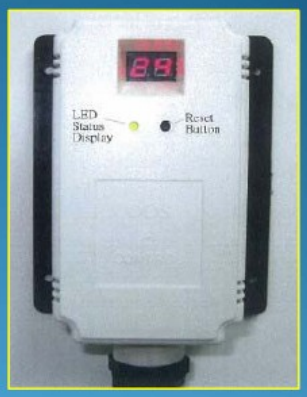
Overheat cutout with manual reset

Numerical display

Overheat single output To BMS

DDS AI THERMO CONTROL

Provides comfortable heating for fan coil units and air handlers. The fuzzy logic electric heating system is developed by DELTA DUCT SYSTEMS LINITED based on years of experience in the duct heater market and have CE approval.



Features:

1. Overheat cutout with manual reset
2. Three select of overheat temperature reset (45˚C, 50˚C, 55˚C)
3. LED status display
4. AI thermo control
5. 4-20 mA signal output to SCR / DDC
6. Normal open output to contactor/BMS
7. Numerical display
8. Status memory

Factory Preset

The AI thermo controller (MODEL: AI-T-250) is factory preset a HI LIMIT temperature to 40˚C discharge air temperature. The temperature sensor inside the air duct feeds back the signal to the controller and it will adjust the output of heater to raise or lower the temperature to match set point.

The AI thermo controller is facture preset a OVERHEAT Cutoff temperature at 50˚C

The AI thermo control is factory preset a HI LIMIT temperature at 40 ˚C

The AI thermo controller is factory preset a LEVEL at Level 2

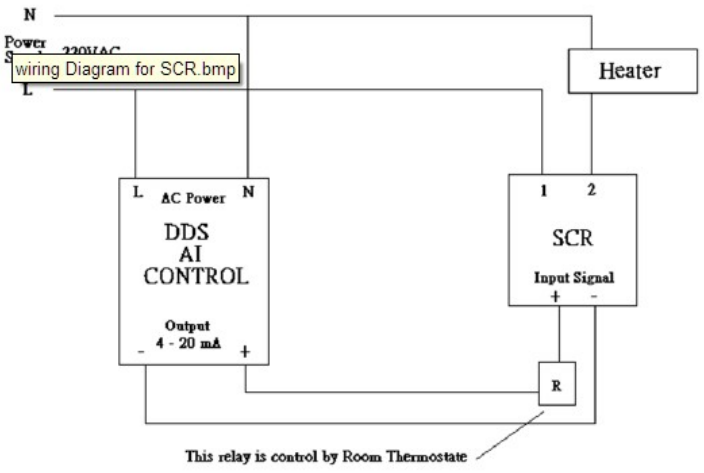
The AI thermo controller is factory preset a OUTPUT MODE at 4-20 mA current mode

DDS AI THERMO CONTROL

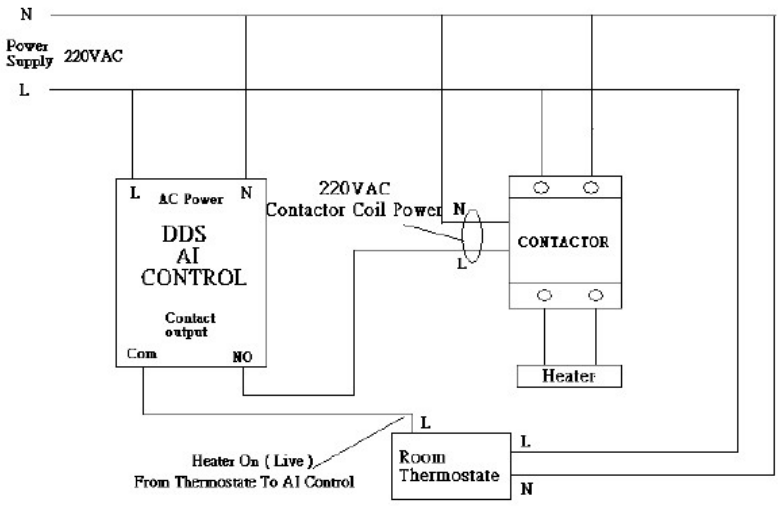
provide Three level select

The output % is base on AI Control to SCR power control system

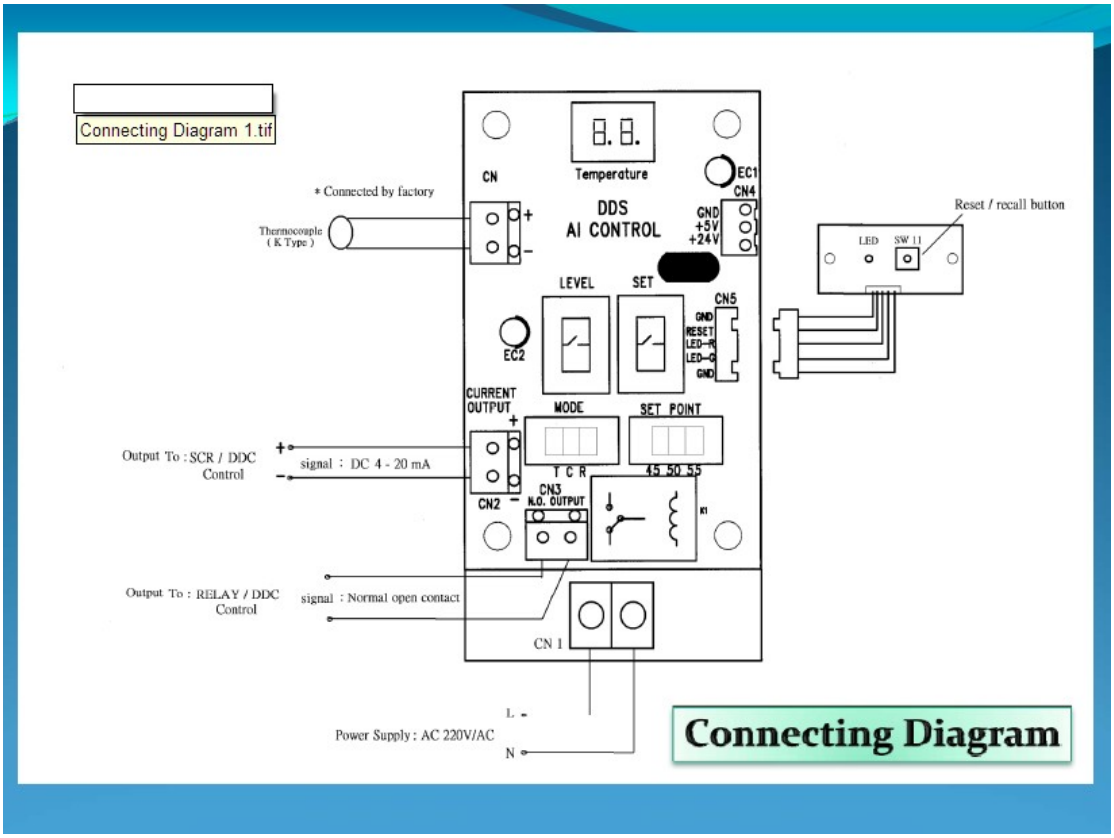
TEMP / OUTPUT	Hi Limit Setting Temp.	S.T. -1˚C	S.T. -2˚C	S.T. -3˚C	S.T. -4˚C	S.T. -5˚C	S.T. -6˚C	S.T. -7˚C
LEVEL 1	0 %	10 %	25 %	40 %	55 %	70 %	85 %	100 %
LEVEL 2	0 %	20 %	40 %	60%	80 %	100%		
LEVEL 3	0 %	25 %	50 %	75 %	100 %			

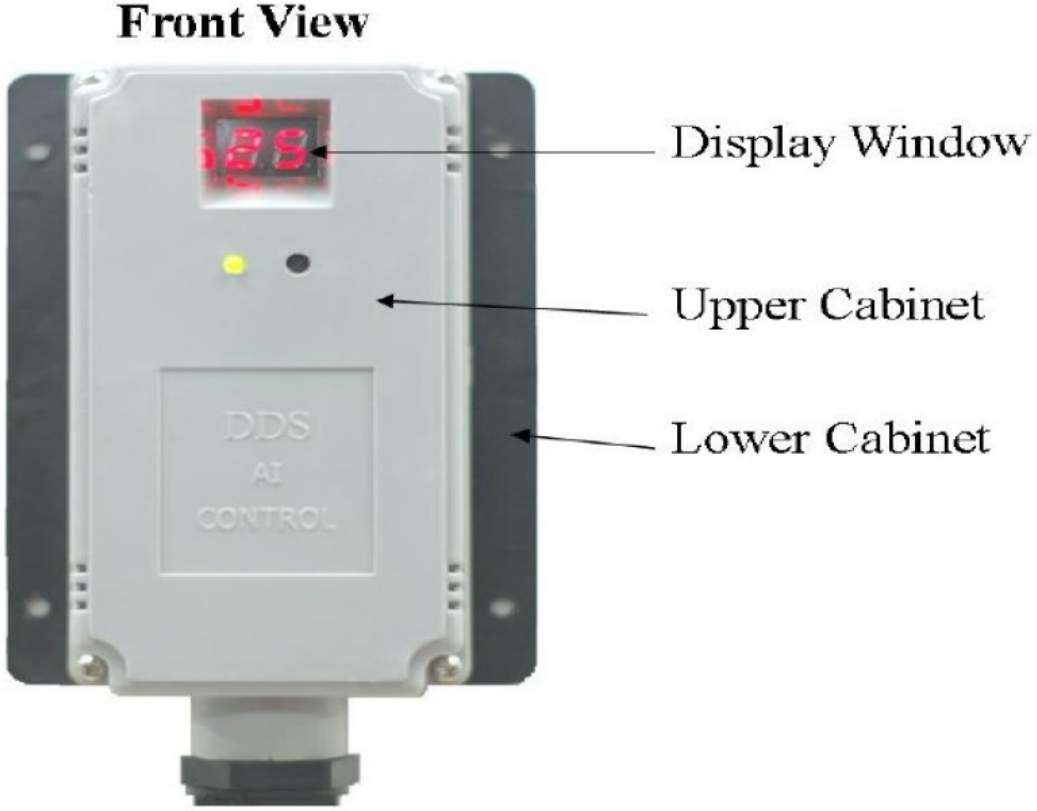


Wiring Diagram For SCR



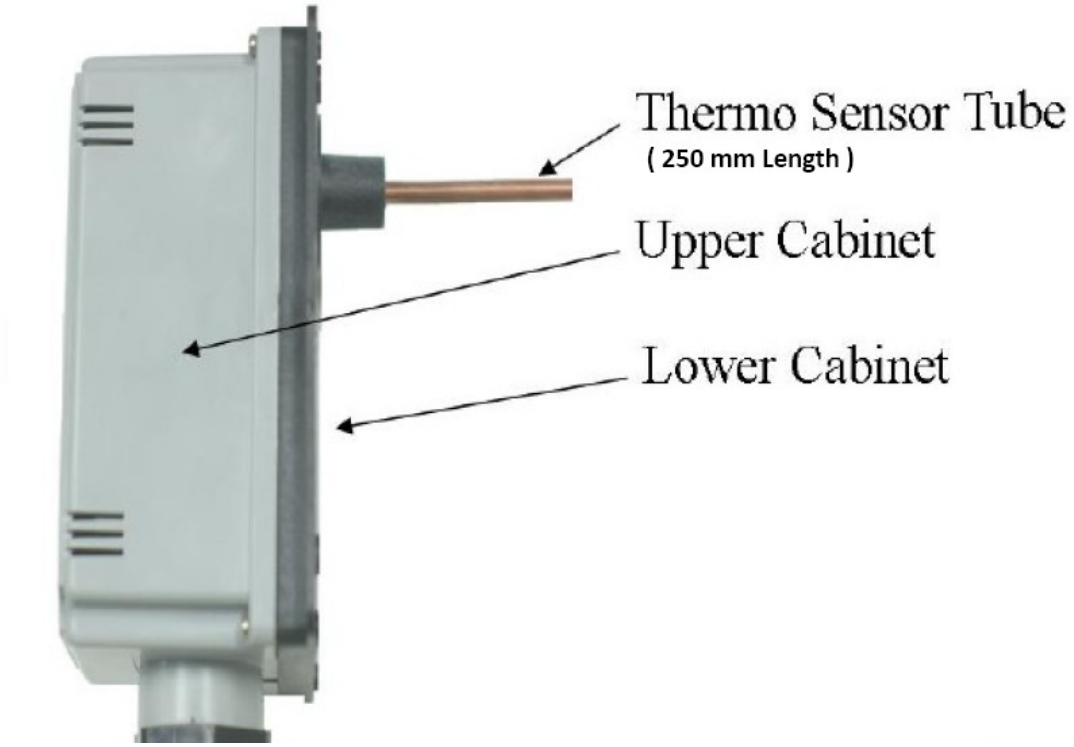
Wiring Diagram For Contactor

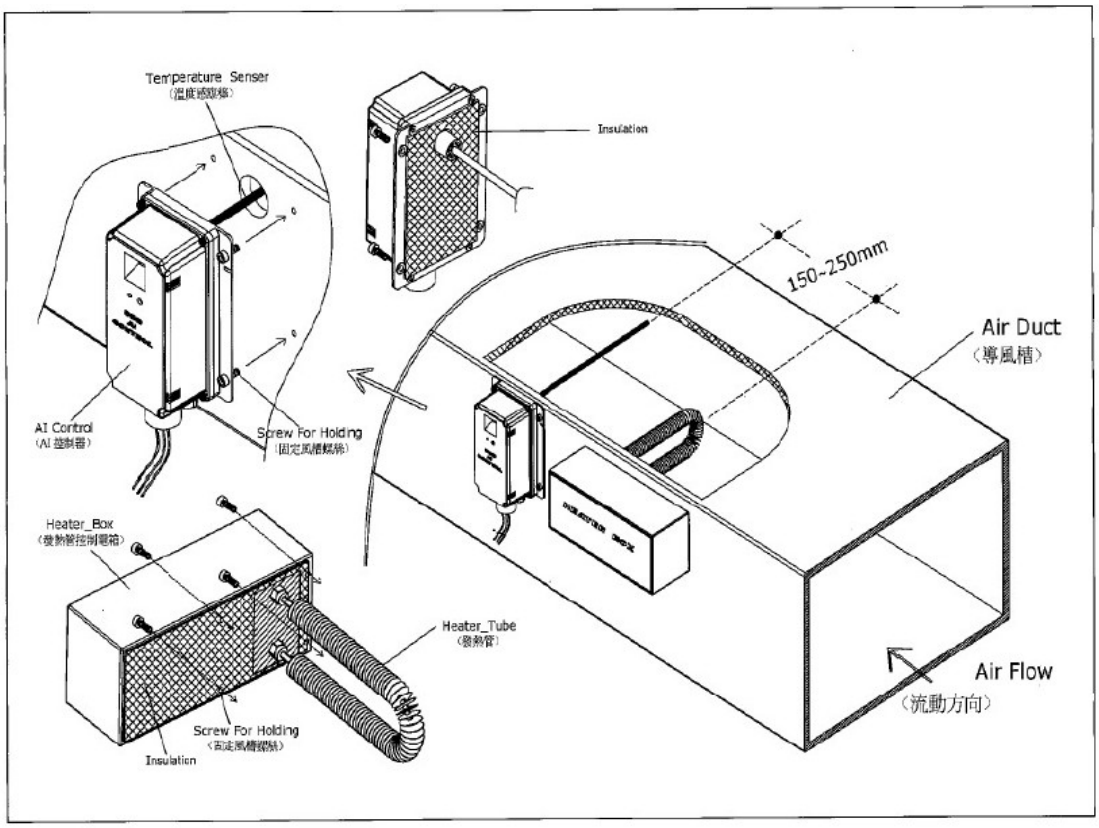

Connecting Diagram 1.tif
* Connected by factory
Thermocouple
(K Type)
CN
Temperature
EC1
CN4
DDS
AI CONTROL
GND
+5V
+24V
Reset / recall button
LED
SW 11
LEVEL
SET
CN5
GND
RESET
LED-R
LED-G
GND
EC2
CURRENT
OUTPUT
MODE
SET POINT
T C R
45 50 55
Output To : SCR / DDC
Control
signal : DC 4 - 20 mA
CN2
CN3
N.O. OUTPUT
K1
Output To : RELAY / DDC
Control
signal : Normal open contact
CN 1
L
Power Supply : AC 220V/AC
N
Connecting Diagram


Front View
Display Window
Upper Cabinet
Lower Cabinet
DDS
AI
CONTROL

15.jpg

Side View





SLG Asia Test Labs & Service (HK) Limited

VERIFICATION OF CONFORMITY

No.: H1M20902-7247-E01

This verification is issued for

Delta Duct Systems Ltd.
3/F , Tung Lee Industrial Building, No. 9 Lai Yip Street, Ngau Tau Kok
Kowloon, Hong Kong

The product with designation of type

AI THERMO CONTROL
Brand name: DDS
Model No.: AI-T-250

meets the essential protection requirements of the following directive:

EMC Directive 2004/108/EC

The assessment of compliance of the product with the requirements relating to electromagnetic compatibility was based on the following standards:

EN 60730-1: 2000+A1: 2004+A16: 2007
EN 60730-2-9: 2002+A1: 2003+A2: 2005
EN 61000-3-2: 2006
EN 61000-3-3: 1995+A1: 2001+A2: 2005

The verification is based on the test report

11.jpg

SLG - H1M20902-7247-E-11

and is valid only if the product is manufactured in accordance with the corresponding tested sample. This verification is the result of tests carried out on one sample and does not represent the serial production of this product.

June 16, 2009
(Date)
F. Schulz
Manager

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VERIFICATION OF CONFORMITY

No.: H1M20902-7247-L01

This verification is issued for

Delta Duct Systems Ltd.
3/F , Tung Lee Industrial Building, No. 9 Lai Yip Street, Ngau Tau Kok
Kowloon, Hong Kong

The product with designation of type

AI THERMO CONTROL
Brand Name: DDS
Model No.: AI-T-250

meets the essential protection requirements of the following directive:

LVD Directive 2006/95/EC

The assessment of compliance of the product with the requirements relating to the Low Voltage Directive (LVD) was based on the following standards:

EN 60730-1:2000 +A1 +A2 +A12 +A13 +A14 +A15
EN 60730-2-9:2002 +A1 +A2 +A11 +A12

The verification is based on the test report

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and is valid only if the product is manufactured in accordance with the corresponding tested sample. This verification is the result of tests carried out on one sample and does not represent the serial production of this product.

July 09, 2009
(Date)
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