

## KC-400S

### Passengers' & Driver's Comfort Control

FTPCK-400SI\_121004



#### KC-400S Control Panel

##### SPECIFICATIONS

**External dimensions:**

188,50 x 58,50 mm. Depth: 91 mm.

**Dimensions of the mounting window:**

181 x 51 mm

**Voltage supply:**

16 – 32 Vdc

**Short circuit protection**

Towards ground and towards + supply

**4 Temperature probes**

PTC1000 1KOhm at 25°C

**Display type / Colour:**

LCD / White, Green, Blue, Red

**Keypad type**

Illuminated silicone keypad

**Connectors:**

4

**Type of connectors:**

AMP Power Timer 21 pins, 18 pins, 9 pins, 6 pins

**Operating Temperature:**

-20°C to 85°C

**Storage Temperature:**

-40°C to 85°C

#### KC-N400 Node

##### SPECIFICATIONS

**External dimensions:**

204 x 147 mm. Height: 38 mm.

**Voltage supply:**

16 – 32 Vdc.

**Short circuit protection**

Towards ground and towards + supply

**4 Temperature probes**

PTC1000 1 KOhm at 25°C

**Communication with KC-400 Panel**

CAN BUS 2.0B

**Communication with Vehicle's Chassis**

CAN BUS 2.0B

**Connectors:**

4

**Type of connectors:**

AMP Power Timer 21 pins, 12 pins, 9 pins, 6 pins

**Operating Temperature:**

-40°C to 85°C

**Storage Temperature:**

-40°C to 85°C

**Normative**

ISO 7637, ISO 16750

### FEATURES: (Using an additional CAN BUS NODE KC-N400)

- Microprocessor controller
- LCD display with backlight (white, green, blue and red colors are available) and illuminated keys
- Connection to 8 temperature probes
  - External temperature
  - Driver's place temperature
  - Driver's evaporator coil temperature
  - Driver's outlet temperature
  - Passengers' zone temperature
  - Passengers' ventilation channel temperature
  - Passengers' evaporator coil temperature
  - Water temperature
- Outdoor temperature display
- External programming connector
- CAN-BUS (Controller Area Network) communication between KC-400 Control panel and KC-N400 Node
- CAN-BUS (Controller Area Network) communication between KC-400 Control panel and vehicle chassis
- Automatic recognition of the heating valve type
- Auxiliary Heating control
- Compressor clutch operation. Supervision of compressor's pressure switches. Max. load: 8 A.
- Fresh air intake damper operation at closing doors
- Self-checking
- Real time operation
- Overload and short circuit protection
- Normalized DIN RADIO size

#### Driver's place:

- Climate control in driver's place
- 3 steps speed ventilation blower direct driven. Max. load: 15 A.
- 20 KHz. PWM Signal for evaporator blowers (5 steps)
- Fresh air intake / recirculation damper. Max. load: 1 A.
- Windshield defrosting function
- Footwell / Windshield air distribution damper. Max. load: 1 A.
- 2 Steps speed platforms heaters blowers direct driven. Max. load: 6 A.
- Driver's place heating valve control direct driven. Max. load: 1 A.
- AUTO key for automatic operation

#### Passengers' zone:

- Climate control in passengers' zone
- 3 steps speed ventilation blower (by means external relays). Max. load: 1 A.
- 20 KHz. PWM Signal for evaporator blowers (5 steps)
- Condenser blowers operation (by means external relays). Max. load: 1 A.
- 20 KHz. PWM Signal for condenser blowers (2 steps)
- Ground heating valve control and Roof heating valve control. Direct driven. Max. load: 1 A.
- Recirculation coolant engine pump control. Direct driven. Max. load: 2,5 A.
- Dehumidification function
- 2 Steps speed platforms heaters blowers. Direct driven. Max. load: 10 A.
- Fresh air intake / recirculation damper. Max. load: 0,5 A.
- AUTO key for automatic operation



**KELD**



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