Lonbox® Series

HVAC Room Controller

Lonbox® Series PCC2053 HVAC Room Controller, is a building automation device for LonWorks installations. The PCC2053 control unit provides space temperature and fan control. PCC2053 is designed to maintain a desired temperature by controlling a heat and cool actuator output and a fan unit.

PCC2053 makes up a complete HVAC room regulation for intelligent 3-stage fan coil control of the room comfort.

The command module is designed for wall surface mounting. The module contains a temperature sensor and buttons for controlling fan speed as well as temperature setpoint. The 3-line display shows location information, current temperature setpoint and fan speed information.

PCC2053 contains the following standardized LonMark® function blocks:

- LonMark® profile 8090 Space Comfort Control Command Module.
- LonMark® profile 8080 Unit Ventilator Controller.

Technical data	PCC2053
LonWorks® Media	Twisted Pair TP/FT-10
Transceiver	FTT-10A
Neuron-Chip	3150, 10MHz
Supply voltage	230VAC
Power consumption	Typically 30mA
Control LED	Supply present, green
Service LED	Neuron state function, yellow
Service switch	Activate Neuron service pin message
Seriel Port	1 connection to command module
- Type	Bidirectional (ext. I^2C)
- Speed	10 kbit/s
- Supply voltage	12 Vdc to command module
Temperature sensor	Build into command module
- Resolution	10 bit
- Range	-10..50 °C
Keyboard	4 function keys
Display	LED 3 * 12 characters with controlled backlight
Output 1	2 FET (pwm) for heat and cool actuators
- Voltage	12 Vdc
- Max power	5 VA
Output 2	3 relay outputs
- Switch	Normally open
- Max power	16 A
EMC immunity	EN50082-2
EMC emission	EN50081-1
Operating temp.	-10 to +55°C
Storage temp.	-20 to +70°C
Models:	
HVAC Room unit	PCC2053
Command unit	PCC2053O