

Proportional-plus-integral (PI) Controllers

ETC2015 Proportional-plus-integral (PI) Controller



Summary

- Individual PI-control of the temperature in rooms that are heated or cooled with 2 -pipe systems or 4-pipe systems using spring return fan coil valves.
- Cost efficient control of pressure dependent VAV units.
- Positioning of an on/off actuator by using the running time of the actuator
- Controlling the temperature output of a simple air-handling unit with one heating or cooling coil.
- Radiator or floor heating, cooling ceiling,

Specifications

Model	ETC2015 , on/off , 3 point floating control , single output , 2 pipe system	
Power	Power Supply	21.5 - 26.5 V AC 50/60 Hz
	Power Consumption	Max 2 VA
	Electrical Connection	Terminal Connectors
	Output Signal	2 digital outputs,
	Switching medium	Relays contacts
	Maximum Load	1A, 24V DC
Operation	Temperature Sensor	NTC resistor 10kΩat 25 °C
	Maximum allowed cable length with copper cable 1.5 mm ² for external connections	80 m
	Control Temperature Range	10 to 35 °C (50...95 °F)
	Measured Temperature Range	10 to 35 °C (50...94 °F)
	Display precision	0.5 °K
	For details of control parameters see parameter section	
Environment	Ambient Temperature	-10 to 50°C acc IEC 721-3-3 (14 to 122 °F)
	Operation	To IEC 721-3-3
	Climatic Conditions	class 3 K5
	Temperature	0...50°C
	Humidity	<95% r.h.
	Transport & Storage	To IEC 721-3-2 and IEC 721-3-1
	Climatic Conditions	class 3 K3 and class 1 K3
	Temperature	-25...70°C
Standards	Humidity	<95% r.h.
	Mechanical Conditions	class 2M2
	Ambient Humidity	0 to 95% rH Non Condensing
	conform according to	
	EMC Standard	89/336/EEC
	EMEI Standard	73/23/EEC
General	Product standards	
	Automatic electrical controls for household and similar use	EN 60 730 -1
	Special requirement on temperature dependent controls	EN60 730 - 2 - 9
	Electromagnetic compatibility	
	Emissions	EN 50 081-1
	Immunity	EN 50 082-1
	Pollution Class	Normal
	Degree of Protection	IP30 to EN 60 529
Safety Class	III to EN 60 730	
General	Housing	ABS plastic
	Servicing	Maintenance Free
	Dimensions	105 x 90 x 37 mm (H x W x D)
	Dimensions of package	160 x 100 x 40 mm (H x W x D)
	Weight (including package)	215 g