

### ETC2016 Proportional-plus-integral (PI) Controller



#### Summary

ETC2016 is a programmable P-PI universal analog controller and actuator positioner. Target applications are in the field of HVAC control. The ETC2016 operates on 24 VAC/DC power supply and features one analogue input and one analogue output. A built-in temperature sensor is included; an external sensor is optional.

#### Specifications

Model	ETC2016 , modulating , 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
	Input Signal	0-10V DC, min and max adjustable via software
	Resolution	39Ω mV
	Output Signal	0-10V DC, min and max adjustable via software
Resolution	39 mV 20 mA, 500Ω	
Maximum Load		
Temperature Sensor	NTC resistor 10kΩ at 25 °C (Constant 3950)	
Cable length with copper cable 1.5 mm <sup>2</sup> for external connections	80 m	
Operation	Control Temperature Range	10 to 35 °C (50...95 °F)
	Measured Temperature Range	0 to 40 °C (32...104 °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	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
	Humidity	<95% r.h.
Mechanical Conditions	class 2M2	
Standards	Ambient Humidity	0 to 95% rH Non Condensing
	conform according to	89/336/EEC
	EMC Standard	73/23/EEC
	EMEI Standard	
	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)	212 g