



# ON-OFF Temperature Controller Series PR 43

- Highly Accurate Performance.
- Luxurious Single 3-digit LED Display.
- Wide supply range: 110-240VAC (Un), -20 to +10% of Un.
- Front keypad with 4 keys.
- Thermocouple (J & K)/RTD 3-wire (Pt-100) sensor inputs.
- Control Modes: Proportional, ON-OFF Asymmetric, ON-OFF Symmetric.
- °C & °F temperature unit selectable
- Control Output: Relay & SSR Drive (Individual products)



Cat. No.	151G11B		151H11B	
Parameters				
Supply Voltage (φ)	110 - 240 VAC			
Supply Variation	-20% to +10% (of φ)			
Frequency	50/60 Hz			
Control Action	ON/OFF (Symmetric / Asymmetric) & Proportional			
Power Consumption	6 VA @ 265 VAC			
Temperature sensors / Inputs	Thermocouple: J, K ; RTD: PT100 - 3 wire compensation;			
Measurement Range	Sensor J: -5°C to 750°C / 23°F to 999°F, Sensor K: -20°C to 850°C / -4°F to 999°F, Sensor PT100 3 wire: - 100°C to 650°C / -148°F to 999°F			
Measurement Accuracy	± 0.5% of full scale			
Resolution	1°C Fixed			
Configurable Set Points	1			
Display	7 segment, 3 digit LED display			
Keypad	4-Keys:  - ESC,  - Down,  - Up,  - Enter / Select			
Output 1	Relay: (1 NO) SPST 5A @ 240 VAC / 30 VDC		SSR: 12 VDC, 30 mA	
LED Indications:				
	OP1 (Red LED)	Continuous ON	Relay output ON	
	°F (Red LED)	Continuous ON	Display °F value	
	°F (Red LED)	Continuous OFF	Display °c value	
Error Indications				
SBR	SENSOR OPEN/BREAK ERROR			
OVR	OVER RANGE ERROR			
UNR	UNDER RANGE ERROR			
Operating Temperature	0°C to +50°C			
Storage Temperature	-10°C to +60°C			
Humidity (Non Condensing)	80% (Rh)			
Enclosure	Flame Retardant UL 94 - V0			
Dimensions (W x H x D) (in mm)	48 x 48 x 91.5			
Weight (unpacked)	120 g			
Mounting	Flush			
Certification	 			
Degree of Protection	IP 20 Terminal & Enclosure, IP 40 (For Front Panel only)			
EMI / EMC				
Harmonic Current Emissions	IEC 61000-3-2			
ESD	IEC 61000-4-2			
Radiated Susceptibility	IEC 61000-4-3			
Electrical Fast Transients	IEC 61000-4-4			
Surges	IEC 61000-4-5			
Conducted Susceptibility	IEC 61000-4-6			
Voltage Dips & Interruptions (AC)	IEC 61000-4-11			
Conducted Emission	CISPR 14-1			
Radiated Emission	CISPR 14-1			
Environmental				
Cold Heat	IEC 60068-2-1			
Dry Heat	IEC 60068-2-2			
Vibration	IEC 60068-2-6			
Repetitive Shock	IEC 60068-2-27			
Non-Repetitive Shock	IEC 60068-2-27			

## ORDERING INFORMATION

### Single Acting PID Controller

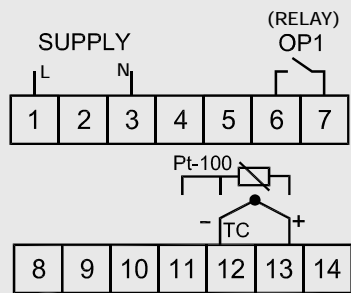
Cat. No.	Description
151G11B	Series PR 43, Relay Output (SPST 5A, 240 VAC / 30 VDC)
151H11B	Series PR 43, SSR driving output (12 VDC, 30 mA)

# ON-OFF Temperature Controller Series PR 43

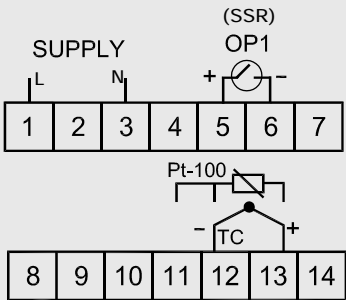


## CONNECTION DIAGRAM

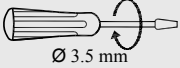

### 151G11B / 151G12B



### 151H11B / 151H12B



## TERMINAL TORQUE & CAPACITY

 Ø 3.5 mm	Torque - 0.54 N.m (4.5 Lb.in) Terminal screw - M3
	Solid Wire - 1 X 0.12...2 mm <sup>2</sup>
AWG	1 X 26 to 14

## MOUNTING DIMENSION (mm)

