

**Power Controllers**

**CI-tronic™ Analogue Power Controller  
ACI**



- Designed for precise temperature and transformer control
- Ideal for analogue control of heaters and infrared lamps
- Easy and quick installation
- Selectable phase angle and burst firing control method
- Accepts current loop, voltage and potentiometer control inputs
- Compact modular design complete with heatsink
- SCR power chip with Low Thermal Expansion technology
- Line voltage 24-480 V ac
- Meets IEC/EN 60947-4-3



The versatile ACI analogue controller is designed for very precise temperature and transformer control. The controller automatically adapts to the load to ensure a smooth inrush, and in burst firing mode it will further eliminate the unwanted effects of DC magnetizing on transformers. The unit is easily connected to a PLC/regulator by means of one of the selectable input signals.

Type	Operational Current max. AC-1	Module Width	Mftrs. List No.
ACI 30-1	30A	45mm	037N0059

Type	Mftrs. List No.	Order Code	Price Each		
ACI 30-1	037N0059	347-8520	1+	5+	10+

**Process Heating**

**Cartridge Heaters 230VAC**



- Designed to eliminate 'heater-to-block' hot spots
- Totally potted to avoid moisture ingress
- High watt density-to-size ratio



Length Dia	Watts	Order Code	Price Each		
			1+	5+	10+
<b>Dia 1/4"</b>					
1 1/2"	100	711-2324			
2"	250	711-2336			
2 1/2"	125	711-2348			
2 1/2"	250	711-2350			
4"	220	711-2361			
<b>Dia 5/8"</b>					
1 1/2"	160	711-2373			
2"	250	711-2385			
2 1/2"	280	711-2397			
3 1/4"	315	711-2403			
4"	280	711-2415			
<b>Dia 3/8"</b>					
1 1/2"	100	711-2427			
1 1/2"	200	711-2439			
2"	160	711-2440			
2"	250	711-2452			
2 1/2"	315	711-2464			
3 1/4"	250	711-2476			
3 1/4"	400	711-2488			
4"	220	711-2490			
4"	350	711-2506			
4"	560	711-2518			
5 1/4"	315	711-2520			
5 1/4"	500	711-2531			
6 1/2"	400	711-2543			
<b>Dia 1/2"</b>					
1 1/2"	100	711-2555			
1 1/2"	250	711-2567			
2"	100	711-2579			
2"	315	711-2580			
2 1/2"	200	711-2592			
2 1/2"	315	711-2609			
2 1/2"	500	711-2610			
3 1/4"	200	711-2622			
3 1/4"	315	711-2634			
3 1/4"	500	711-2646			
4"	250	711-2658			
4"	400	711-2660			
5 1/4"	400	711-2671			
5 1/4"	630	711-2683			
6 1/2"	500	711-2695			
8"	630	711-2701			

Continued

Length Dia	Watts	Order Code	Price Each		
			1+	5+	10+
<b>Dia 5/8"</b>					
2"	250	711-2713			
3 1/4"	280	711-2725			
3 1/4"	400	711-2737			
4"	350	711-2749			
4"	500	711-2750			
5 1/4"	500	711-2762			
6 1/2"	630	711-2774			
8"	800	711-2786			
<b>Dia 3/4"</b>					
2 1/2"	200	711-2798			
2 1/2"	630	711-2804			
4"	450	711-2816			
4"	1400	711-2828			
6 1/2"	800	711-2830			
6 1/2"	1800	711-2841			
8"	800	711-2853			
8"	800	711-2865			

**Tubular Heaters**



General purpose heaters which can be used as a source of radiant / convected heat or immersed

- Supplied in straight format
- Pre-annealed for easy bending and forming
- Cost effective, durable heat source

Max. Temp.	800°C	Min. bend radius	13mm
Sheath	7.9mm dia. incoloy 800	Termination	4 ba thread
Cold ends	50mm	Rated voltage	240V ac

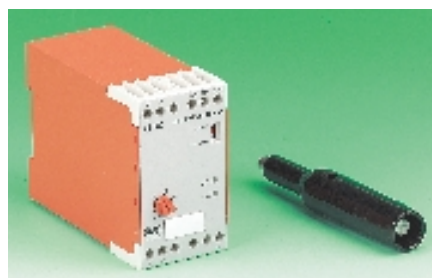
**WARNING: Cold ends must not be bent**

PLC211

Length (mm)	Watts	Order Code	Price Each		
			1+	5+	10+
1372	1000	322-5203			
1524	1000	322-5215			
2138	2000	322-5227			
2440	1500	322-5239			
2440	2000	322-5240			
2440	2500	322-5252			
2440	3000	322-5264			
2440	2300	322-5276			

**Fluid Level Controls**

**Level Control Relay  
Pump Up / Pump Down**



Relay H = 78, W = 45, D = 99  
Probe & Holder L = 100mm

The units are designed to control the maximum and/or minimum levels of conductive liquids (user selectable via front switch). The relay energises and the Red LED illuminates when the level falls below the low level probe (pump-up mode) until it reaches the high level probe (pump-down mode)

Operating voltage	110Vac, 230V ac	<b>Probe</b>	
Inter-electrode voltages	17V ac	Mounting	Free - screw terminal
Power consumption	1.5 VA	Max temp.	70°C
Operate resistance	5kΩ to 100kΩ		
Contact rating	SPDT AC1 10A/250V ac DC1 10A/25V dc AC15 6A/250V ac		
Ambient temperature	-20°C to +60°C		

PLC214

Supply Voltage	Order Code	Price Each		
		1+	5+	10+
110V	321-2956			
240V	321-3109			
Probe and Holder	321-3110			