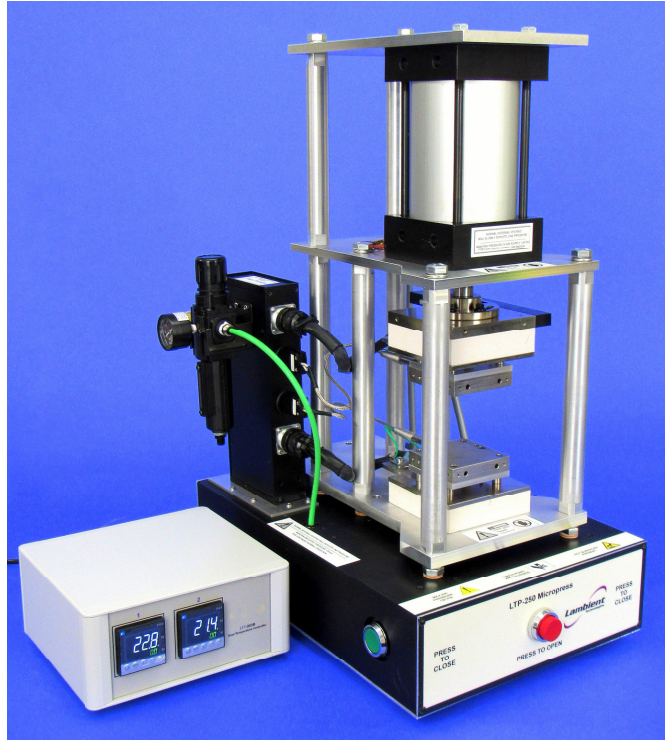




## LTP-250A MicroPress™ Miniature Press Specifications



**Figure 1**  
**LTP-250A MicroPress with LTT-203B Temperature Controller**

### DESCRIPTION

The LTP-250A MicroPress™ is a miniature pneumatic press for general use in applying heat and pressure for material testing. The optional Lambient Technologies LTT-203B dual temperature controller enables up to eight ramp and hold steps with a range from ambient to 350 °C (660 °F). At the maximum input air pressure of 120 psi, the maximum applied force is 1500 pounds (680 Kg) on a 3.0" x 3.0" (75 mm x 75 mm) platen.

The LTP-250A MicroPress™ is also useful for the curing of SMC, BMC, epoxies, polyesters, polystyrenes, polyurethanes, silicones, laminates and other thermosets and composites. Providing a portable, easily operated platform to reproduce the processing profiles of most composites, the LTP-250A MicroPress™ temperature may be controlled manually or with *CureView*™ software from Lambient Technologies. When used with any sensor from Lambient Technologies, the LTP-250A MicroPress™ becomes a complete testing station for thermoset or composite cure studies.

## Specifications

### Overall

**Environmental conditions:**

**Temperature** : 0 °C to 55 °C (32 °F to 131 °F)

**Relative Humidity** : 90% RH max, non-condensing

### Press Unit

**Cylinder diameter** : 100 cm (4")

**Maximum input air pressure** : 8.25 bar (120 psi)

**Maximum applied force** : 680 kg (1500 pounds)

**Control:** Pneumatic logic, no electrical power required

- Two "CLOSE" buttons requiring simultaneous continuous actuation to close press
- Press latches closed at end of stroke
- One "OPEN" button requiring momentary actuation to open press
- Pressure regulator to control air pressure and applied force

**Pneumatic connection:** Nylon or polyurethane tubing 10 mm O.D., 1.5 mm wall thickness, rated for 8.25 bar (120 psi)

**Stroke (max. platen separation)** : 7.9 cm (3.1") without Ceramicomb™ sensor plate,  
: 6.0 cm (2.4") with sensor plate

**Platen dimensions** : 7.5 cm x 7.5 cm (3" x 3")

**Platen material** : Steel

**Press dimensions (H x W x D)** : 64.8 cm x 31.8 cm x 47.2 cm (25.5" x 12.5" x 18.6")

**Press weight** : 27 Kg (60 lbs)

### LTT-203B Temperature Controller Option

**Controller communications** : RS-485, USB with adapter

**Total heater power** : 450 W (225 W/platen when used with temperature controllers)

**Working temperature** : Ambient to 350 °C (ambient to 660 °F)

**Thermocouples** : Type J, one in each platen

**Power (specify mains voltage when ordering):**

**Mains voltage** : 110 VAC ± 10% or 220 VAC ± 10%

**Mains frequency** : 50-60 Hz

**Max press current** : 4.0 A

**Fuses** : Two, 5 mm x 20 mm, 8A, 250 V



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