



The satisfactory development, manufacture, conversion and application of flexible packaging films necessitates the implementation of precise methods of quality control systems.

The HL-1 was developed to precisely control the parameters essential in determining the heat seal threshold of low pressure heat sealing material for applications where low pressure sealing is required, often associated with the product being packaged such as the Tobacco or chocolate confectionery Industries.

Especially suited for flexible packaging materials used in the Tobacco or Confectionery industry, the HL-1 features accurate control of temperature, pressure and dwell time of a standard surface area sealing jaw.

The HL-1 has a floating top jaw which has a given seal area and weigh the exact amount to produce the correct pressure needed according to the force per unit area calculation. Also the seal alignment is easily achieved because of the floating top jaw.

## Specification

**Temperature Control:** 0 - 250°C (0 - 482°F)  
0.1°C resolution +/- 0.5% +/- 1 digit accuracy.  
Operating temperature accuracy +/- 2°C.  
Resistance Type 'PT100' sensing.

**Pressure:** 0 – 1.0psi (0 – 0.068 bar, 0 – 6.89 Kpa) as a result of floating block 1.00lb (453.6g). In weight accuracy +/- 0.01g with a seal area of 25.4mm x 25.4mm accuracy +/- 0.01mm. Supply via factory compressed air line or nitrogen or compressed air bottles min 4 bar (58 psi) max. 6 bar(87 psi). Pressure medium must be clean and dry.

**Dwell Time:** 0.01 – 9.99 sec. 0.01 sec resolution real time base via quartz crystal +/- 0.01% of range. Pre-signal output adjustable between 1ms-100ms +/- 0.1ms ensures total contact time is equal to reset time.

**Delay Time:** 0.1 – 99.9 sec. 0.1 sec resolution real time base via quartz crystal, +/- 0.1% of range, assists with the correct alignment of the pouch/bag/sample.

**Footswitch:** Connection port for footswitch operation. Optional footswitch.

**Sealing Jaw:** Top Jaw (unheated) floating block with silicone rubber surface 60 shore hardness with ground flat face. Weighing 1.00lb (453.6g) with seal area 25.4mm x 25.4mm. Lower jaw heated and pneumatically controlled with ground flat face 27.0mm x 27.0mm.

**Power:** 240V AC 50/60 Hz (110V AC voltage available on request)

## Options

- Footswitch
- Load cell (5Kg) added display to measure the load of the top floating jaw to monitor the accuracy of the applied pressure. Also to measure the load applied for increased seal pressure.
- 2, 3 or 4 lb weight floating top jaw to increase the pressure on the seal.



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