

# APECH 305



### Features

- Display: 3 1/2 digit liquid crystal display (LCD) with maximum reading of 1999
- Battery: Standard 9V battery (NEDA 1604, IEC 6F22)
- Battery Life: 200 hours typical with carbon zinc battery
- Dimensions: 147 mm (H) x 70 mm (W) x 39 mm (D)
- Weight: 7.4 oz (210g)
- Supplied Probe: 4-foot type "K" thermocouple bead probe (teflon tape insulated). Maximum insulation temperature 20°C (500°F). Probe accuracy  $\pm 2.2^{\circ}\text{C}$  or  $\pm 75\%$  of reading (whichever is greater)

### Specifications

- Temperature Scale: Celsius or Fahrenheit user-selectable
- Measurement Range:  $-50^{\circ}\text{C}$  to  $1300^{\circ}\text{C}$ . ( $-58^{\circ}\text{F}$  to  $2000^{\circ}\text{F}$ )
- Resolution:  $1^{\circ}\text{C}$  or  $1^{\circ}\text{F}$  or  $0.1^{\circ}\text{C}$  or  $0.1^{\circ}\text{F}$
- Accuracy: Accuracy is specified for operating temperatures over the range of  $18^{\circ}\text{C}$  to  $28^{\circ}\text{C}$  ( $64^{\circ}\text{F}$  to  $82^{\circ}\text{F}$ ) for 1 year, not including thermocouple error.
  - $\pm (0.34 \text{ rdg} + 1 \text{ oC})$   $-50^{\circ}\text{C}$  to  $1000^{\circ}\text{C}$
  - $\pm (0.5\% \text{ rdg} + 1 \text{ oC})$   $1000^{\circ}\text{C}$  to  $1300^{\circ}\text{C}$
  - $\pm (0.3\% \text{ rdg} + 2 \text{ oF})$   $-58^{\circ}\text{F}$  to  $2000^{\circ}\text{F}$
- Temperature Coefficient: 0.1 times the applicable accuracy specification per oC from  $0^{\circ}\text{C}$  to  $18^{\circ}\text{C}$  and  $28^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  ( $32^{\circ}\text{F}$  to  $64^{\circ}\text{F}$  and  $82^{\circ}\text{F}$  to  $122^{\circ}\text{F}$ ).
- Input Protection: 60V dc or 24V rms ac maximum input voltage on any combination of input pins.
- Reading Rate: 2.5 times per second.
- Input Connector: Accepts standard miniature thermocouple connectors (flat blades spaced 7.9mm. center to center).

# APECH 307



### Features

- Display: 3 1/2 digit liquid crystal display (LCD) with maximum reading of 1999
- Battery: Standard 9V battery (NEDA 1604, IEC 6F22)
- Battery Life: 200 hours typical with carbon zinc battery
- Dimensions: 147 mm (H) x 70 mm (W) x 39 mm (D)
- Weight: 7.6 oz (215g)
- Supplied Probe: 4-foot type "K" thermocouple bead probe (teflon tape insulated). Maximum insulation temperature 20°C (500°F). Probe accuracy  $\pm 2.2^{\circ}\text{C}$  or  $\pm 75\%$  of reading (whichever is greater)

### Specifications

- Temperature Scale: Celsius or Fahrenheit user-selectable
- Measurement Range:  $-50^{\circ}\text{C}$  to  $1300^{\circ}\text{C}$ . ( $-58^{\circ}\text{F}$  to  $2000^{\circ}\text{F}$ )
- Resolution:  $1^{\circ}\text{C}$  or  $1^{\circ}\text{F}$  or  $0.1^{\circ}\text{C}$  or  $0.1^{\circ}\text{F}$
- Accuracy: Accuracy is specified for operating temperatures over the range of  $18^{\circ}\text{C}$  to  $28^{\circ}\text{C}$  ( $64^{\circ}\text{F}$  to  $82^{\circ}\text{F}$ ) for 1 year, not including thermocouple error.
  - $\pm 2^{\circ}\text{C}$   $-50^{\circ}\text{C}$  to  $0^{\circ}\text{C}$
  - $\pm 4^{\circ}\text{F}$   $-58^{\circ}\text{F}$  to  $32^{\circ}\text{F}$
  - $\pm (0.3\% \text{ rdg} + 1 \text{ oC})$   $0^{\circ}\text{C}$  to  $1000^{\circ}\text{C}$
  - $\pm (0.5\% \text{ rdg} + 1 \text{ oC})$   $1000^{\circ}\text{C}$  to  $1300^{\circ}\text{C}$
  - $\pm (0.3\% \text{ rdg} + 2 \text{ oF})$   $32^{\circ}\text{F}$  to  $2000^{\circ}\text{F}$
- Temperature Coefficient: 0.1 times the applicable accuracy specification per oC from  $0^{\circ}\text{C}$  to  $18^{\circ}\text{C}$  and  $28^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  ( $32^{\circ}\text{F}$  to  $64^{\circ}\text{F}$  and  $82^{\circ}\text{F}$  to  $122^{\circ}\text{F}$ ).
- Input Protection: 60V dc or 24V rms ac maximum input voltage on any combination of input pins.
- Reading Rate: 2.5 times per second.
- Input Connector: Accepts standard miniature thermocouple connectors (flat blades spaced 7.9mm. center to center).