



## DSL SERIES, 1/16 DIN DIGITAL THERMOSTATS

| MODEL NUMBER | VOLTS  | MAX. AMPS | TEMP. RANGE               | SENSOR LENGTH<br>Ft./ (m) | REPL. SENSOR P/N | SHIP WGT.<br>Lbs./ (kg) |
|--------------|--------|-----------|---------------------------|---------------------------|------------------|-------------------------|
| DSL          | 85-265 | 3         | -100-500°F<br>(-73-260°C) | 10'<br>(3 m)              | RTD1000          | 2<br>(1)                |

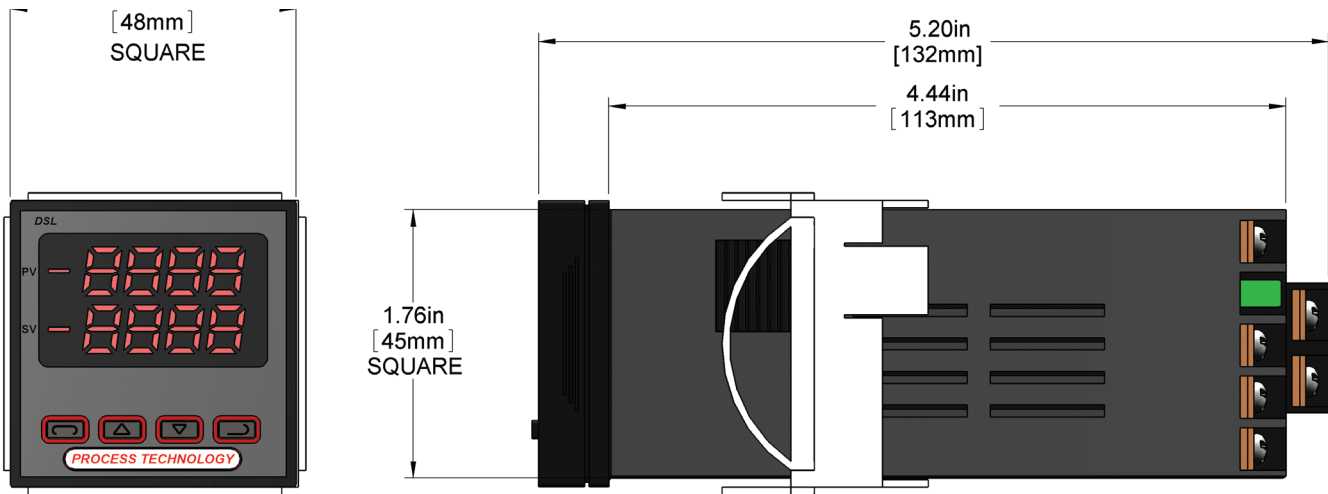
## Product Features and Benefits:

- ◆ **IMPROVES PROCESS CONTROL:** Easy to read dual LED displays (.3 inches high). Two set points (heating and cooling). Provides precise temperature control for consistent plating and etch rates in most aqueous processes.
- ◆ **TEMPERATURE SENSOR:** Fluoropolymer (FEP) covered 10-foot (3m), 1000-ohm platinum RTD sensor included standard with the control. Provides extended service in corrosive liquids and can be lengthened with ordinary copper hookup wire.
- ◆ **CORROSION RESISTANT ENCLOSURE:** 1/16 DIN size with NEMA 4X (indoor), IP66, 3R and 12 rated front panel and sealed tactile switches.
- ◆ **CERTIFICATIONS:** cULus and CE.
- ◆ **CAPACITIES:**
  - Single pole, single throw switches rated at 3-amps for 120 through 240 volts. Three switches: Set Point 1 (SP1), Set Point 2 (SP2), and alarm output (AL).
  - Adjustable temperature range from -328°F (-200°C) to 4208°F (2320°C).
  - +/- .25% full span, single digit accuracy.
  - 14°F (-10°C) to 131°F (55°C) ambient temperature range.
  - Universal power supply: 100 to 240 VAC, 50 to 400 Hz.
  - Single phase only.
- ◆ **SPECIAL FEATURES:** Auto tune PID, PID or On/Off control with Auto/Manual operation.
- ◆ **SAFETY FEATURES:**
  - Non-volatile memory.
  - Programmable high and/or low temperature alarm output.
  - Sensor short and break protection.
  - Programmable high setpoint limit.
  - Security code restricted menu.
- ◆ **OPTIONS AVAILABLE** (consult factory):
  - 25-foot (7.6m) and 50-foot (15.2m) sensors.
  - Combination controls available for three phase service and larger heater loads.
  - Three wire 100-ohm RTD sensors.
  - Type J, K, T, and R thermocouples.
  - Special sensors (required for temperatures above 500°F [260°C]).
  - Scalable voltage and current inputs.
  - 4-20 mA or 0-10VDC outputs for process recording.
  - 4-20 mA or 15VDC control outputs.
  - Voltage, relay, logic/SSR and current outputs.
  - RS232 or RS485 communication protocol.
  - Adaptor panels for control retrofits.
  - Plastic enclosures for wall mounting.

### Your Distributor:

80 Metcalfe Street • Buffalo, NY 14206 U.S.A. • **US/CN: 800-777-2436** • 716-856-2300 • Fax: 716-856-7115  
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## DIMENSIONS



## DSL CONTROL ORDERING INFORMATION

| Series | Amperes | Standard Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DSL    | 3       | <ul style="list-style-type: none"> <li>-PB = mounted in plastic box</li> <li>-MAR = milliamp output (recording)</li> <li>-VR = voltage output (recording)</li> <li>-E = outlet for plug-in heater</li> <li>-RS = RS485 protocol</li> <li>-MS = multistage functions</li> <li>-VS = burst firing SSRs (PID)</li> <li>-MAC = current loop SSR firing (PID)</li> <li>-25 = 25 foot RTD sensor</li> <li>-50 = 50 foot RTD sensor</li> <li>-TEF = additional FEP sensor sleeve</li> <li>-H = high temperature sensor</li> <li>-TEF = additional FEP sensor sleeve</li> <li>-TC = thermocouple sensor</li> </ul> |

### **ORDERING EXAMPLE:**

DSL-25

DSL series control, 3 amps, with 25 foot RTD sensor.

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